

R E P O R T

OF THE

HEALTH OF LIVERPOOL

DURING THE YEAR 1881,

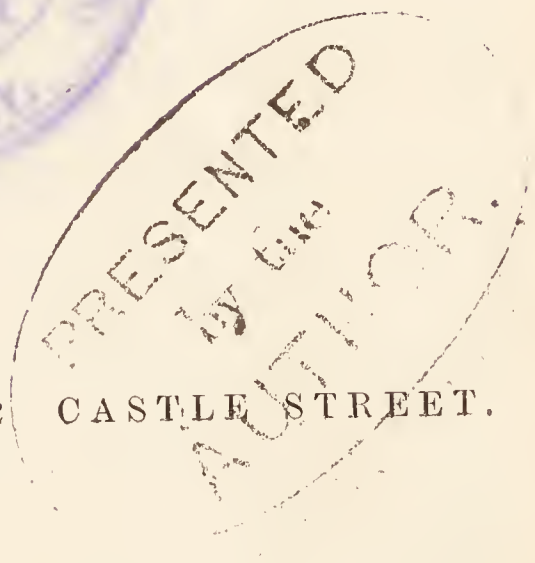
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REPORT 1881.

THE estimated population of the City for this year was 553,988, comprising 209,358 in the Parish, 110,231 in Everton, 58,915 in Kirkdale, 68,119 in West Derby, 63,965 in North Toxteth, and 43,400 in South Toxteth. The natural increase of the population during the year by the excess of births over deaths was 6,029.

The year has been one of considerable anxiety owing to the increased prevalence of fever, notably typhus; and an outbreak of small pox, which threatened a serious epidemic, but the active operations of the vaccination officers, and the facilities afforded by the Committee of the Netherfield Institution for the isolation of patients, by devoting their Wards for a time for the reception of small pox cases only, assisted very materially in staying its progress.

TYPHUS.

The extensive sanitary operations carried out during the last twenty years have greatly diminished the prevalence of fever, and an increase, though slight when compared with the condition of former times, is very disappointing, and reflects very sadly upon the character of the City. The question may naturally be asked—Why does typhus find its home in Liverpool? Are not its causes well known, and can they not be removed? Truly much has been done, and more remains to be carried out; but with the sanitary reformer there should be the social reformer, for with scarcely an exception every local outbreak is the result of “poverty, dirt, and improvidence.” There is a large and growing class amongst us who almost appear to be beyond the pale of enlightenment; they are left to themselves and forgotten, but disease fostered by their habits is apt to break through the boundaries of the unhealthy districts and spread its lethal shadow far and wide. The public should bear in mind that “as the strength of a chain is its weakest link, so the health of a community is that of the weakest member,” and as long as unhealthy areas are allowed to continue so long will the public health suffer.

Very few cases can be attributed to poverty alone, though some melancholy cases have been discovered ; but the majority of cases have been amongst those who suffer from self-inflicted poverty—people who by their improvident and dirty habits are devoid of the very necessities and decencies of life, and when attacked by disease speedily die.

The following illustrations will be of interest to the social reformer as well as to the sanitarian :—

On March 21st a death from enteric fever (no doubt typhus) was reported to have occurred at No. 2 house, 7 court, Beau Street. The tenant of the house was a gasfitter who earned plenty of money, but spent it in drink ; his wife and children were poorly clad and ill-nourished, the deceased being one of his daughters. The house was stoved on the removal of the body for interment and the bedding disinfected, a portion, however, being so filthy that it had to be destroyed. The family gradually sickened, and on April 5th the wife and two children were taken to hospital suffering from typhus, the man being too ill for removal, and dying the following day. The woman died on the 8th, one child on the 14th, and the other on the 26th of the same month.

On April 14th a case of typhus was removed to hospital from No. 10 house, 7 court, Eccles Street ; on the 20th one case from No. 11 house, and on May 5th and 7th a man and his wife from No. 8 house—all in the same court. The people were intemperate and the houses in a filthy condition, a great portion of the bedding having to be destroyed owing to its foul state. All four died. Some people, residents of 3 court, Ford Street, were friends of the sick folks in Eccles Street, and visited them. The result was five cases of typhus in No. 3 court and two deaths, and three cases at No. 14 in Ford Street. The daughter of the people at No. 11 house, 7 court, Eccles Street, was married and lived at 32a, Great Richmond Street. Communication was kept up between the houses, and the following consequences ensued :—The woman, her husband, and two lodgers in the same house were removed to hospital suffering from typhus, and three of them died. The house was very dirty, and part of the bedding had to be destroyed. The origin of many other cases was traced to the people in 7 court, Eccles Street. On April 29th it was reported that a whole family was ill at 6 house, 8 court, Oriel Street. They were found in great poverty, suffering from typhus, without any necessities, and no one to attend upon them. The father, mother, and three children were removed to hospital, and four of them died. The house was in a filthy state, and what constituted the bedding was burnt.

These illustrations might be indefinitely extended, but the above are surely sufficient to arouse the better feelings of our townsmen to the necessity of lifting

their weaker brethren from the wretched condition into which they have fallen. The difficulty, no doubt, is great, but where there is determined action it is sure to succeed.

TYPHOID FEVER.

The deaths from this disease are much below the average, and, though many instances have occurred showing the injurious effect of sewer emanations, none are more melancholy than that of Mr. Betteley and his family, at 12, Bulwer Street.

The first information of sickness existing in Bulwer Street was in the Registrar's return that a child, aged five years, had died on 29th August from peritonitis; on November 13th a child, aged eight months, died from diarrhœa; on the 18th of the same month Mr. Betteley, his wife, and one child, aged two years, were taken to the hospital suffering from typhoid fever. On the 21st the two remaining children were taken to the hospital suffering from the same disease. Mr. and Mrs. Betteley died.

The property in Bulwer Street is comparatively new, respectably tenanted, the site elevated, and the district healthy. The usual defects of the sanitary arrangements were soon discovered, and were as follows:—The junction of the closet-pan with the soil pipe was defective, the waste pipe of the bath had no plug and communicated direct with the soil pipe, having a slight bend of two or three inches for a trap, and the soil pipe going direct into the drain leading to the sewer was supposed to be ventilated by a one-inch lead pipe. There had frequently been very bad smells in the house, which Mr. Betteley endeavoured to overcome by means of disinfectants—a proceeding on which too much reliance is placed; and it cannot be too widely made known that persons finding defects in the sanitary arrangements of their houses, or experiencing any offensive odours, should send notice to the Inspector of Nuisances, when the property would be examined and proceedings taken to abate the nuisance.

SMALL POX.

There were two cases of small pox reported—one on January 7th, in West Street, and the other on February 6th, in Boaler Street—but the disease did not spread until the arrival of imported cases, which commenced on March 14th, when six cases were landed from the ship "Belvidere," and on the same day a tramp was found in the streets suffering from the disease. These were followed by the subjoined cases reported to the Office or discovered by Inspectors:—

- March 23—An emigrant in a lodging-house.
- April 7—A Spanish sailor in a lodging-house.
- „ 22—A case in 15 court, Robsart Street.
- „ 26—A man who lodged at the same house with the Spanish sailor.
- May 6—A case in Scotland Road.
- „ 9—A case in 15 court, Robsart Street.
- „ „—One case landed from ship “City of Brussels.”
- „ 20—A case in Marwood Street.
- „ 23—Three cases reported.
- „ 24—Four cases.
- „ 27—Five cases.
- „ 28—Three cases, one an emigrant.
- „ 30—Twelve cases.
- „ „—Two cases landed from ship “Wisconsin.”
- „ 31—A foreigner, who had just arrived from London.

From June 1st to end of July 164 cases were reported, and from that date to the end of the year fifty-one cases were reported, making the number of reported cases 262. Other cases no doubt occurred in private houses, of which no return was made.

At the request of the Medical Officer in May, the Committee of the Netherfield Hospital devoted it to the reception of small pox cases only, and to the middle of June all patients were sent there. As the accommodation was limited and the disease increasing, the Select Vestry and West Derby Guardians arranged, as on former occasions, that Mill Road Hospital belonging to the West Derby Guardians should be used exclusively for small pox cases, and the Select Vestry's Hospital in Brownlow Hill for fever. House to house visitation was made for the discovery of children who had not been vaccinated, and increased facilities for vaccination were offered. Isolation by removal to hospital was strongly enforced, and of the 262 cases reported 199 were taken to hospital. These measures were fortunately successful in stopping what, in the summer months, threatened to be a serious epidemic.

The mortality from the disease varied in the two hospitals, which can be accounted for by the earliest and severest cases being sent to Netherfield Road, whilst the later and milder cases were sent to Mill Road.

The number of patients in Netherfield Hospital was eighty-five, of which fifteen died, being a death rate of 17·6 per cent. ; the number in Mill Road was 111, of which nine died, being 8·1 per cent.

The total deaths of all cases were thirty-four within the City, and of the

reported cases three were sent to Smithdown Road Hospital, where one died, thus making thirty-five deaths in all, or a percentage death rate of 13·3.

OFFENSIVE TRADES.

The number of applications for permission to carry on various businesses, which come under the designation of offensive trades, was twenty, of which eight were granted and twelve refused.

There were two applications for licenses to slaughter cattle, both of which were refused. A deputation having waited upon the Health Committee to urge the necessity of a slaughter-house being established at 194, Wellington Road, the reconsideration of the application, together with the general subject of slaughter-houses in the City, were referred to the Medical Officer to report upon. The report contained a review of the policy of the Health Committee since its formation, its endeavour to remove the slaughter-houses outside the City, the objectionable character of such trades in the vicinity of dwelling-houses, and the opinions of a number of medical officers that such trades were injurious to health, and “in conclusion the Medical Officer respectfully observes that he entirely concurs in the opinions expressed by the medical gentlemen previously referred to; that no conditions or circumstances have arisen to necessitate the establishment of a new abattoir; that the convenience of a few should not weigh against the injury to many; that there is abundant accommodation for slaughtering animals; that this accommodation is already in excess of all requirements, and likely to increase; and, lastly, that the proposed site in Wellington Road for a new abattoir is most objectionable, being in the midst of a densely-populated district, and where it would be injurious to health.”

An application was also made to the Committee to sanction plans for the erection of a new hide, skin, and fat market in Gill Street. The Medical Officer advised the Committee that, though the business was not one of those mentioned in the 112th Section of the Public Health Act, yet it was *ejusdem generis* with those trades, and would be a nuisance. The plans were not approved, and the Medical Officer was requested to report on the application, which he did as follows:—“Gill Street is situated in one of the most healthy wards, and from its geographical position should be free from those morbid influences which prevail in many districts; but, owing to the aggregation of a number of offensive trades and businesses, the epidemics of typhus and cholera were nearly as fatal in Gill Street and its neighbourhood as in the worst parts of the City.

The Corporation has expended large sums of money in purchasing property

and making alterations in the district, which has greatly improved the ventilation and lessened the sickness and mortality.

Many complaints have been made of the offensive odours emanating from the hide market already established; but as the odours are incidental to the business, and cannot be altogether obviated, the Medical Officer is to a great extent powerless in remedying the nuisance.

To test the feeling of the residents in the neighbourhood of the hide market, an inspector has visited 109 houses, and reports that the tenants of forty-nine houses complain of the bad smells, the remaining tenants being butchers or persons connected with the trade, and small shopkeepers who will not complain.

The Medical Officer would respectfully advise the Committee that the existence of slaughter-houses and the various trades connected with them in the heart of a crowded City like Liverpool is a great sanitary evil, and the establishment of an additional market for the sale and storage of hides, skins, and fat would increase the mischief and injuriously affect the public health."

INSANITARY PROPERTY.

The Town Council voted five thousand pounds for the purchase and demolition of such insanitary property as the Health Committee thought desirable; and this sum has been expended on the purchase of 128 houses, of which 117 are in possession and twelve demolished. Fifty-one houses have also been purchased under the Sixth Presentment, twenty-nine of which are in possession and ten demolished. The houses described as in possession will be demolished.

The following table gives the annual number of deaths from diarrhœa and fever, being the diseases most influenced by sanitary measures :—

YEAR.	Deaths from Diarrhœa.	Deaths from Fever.	Deaths from Relapsing Fever.
1866	1145	1523	...
1867	796	656	...
1868	1108	841	...
1869	1001	783	...
1870	1151	572	355
1871	1127	701	207
1872	998	451	25
1873	906	335	...
1874	879	449	...
1875	842	490	...
1876	694	398	...
1877	605	382	...
1878	979	375	...
1879	402	248	...
1880	1028	256	...
1881	508	292	...

During the fifty-two weeks of the year 1881 (terminating on Saturday, December 31), the Returns of the Local Registrars record 20,762 births and 14,733 deaths within the City; the numbers for the corresponding period of the previous year, 1880, were 20,783 births and 14,811 deaths.

Of the births 10,510 were males and 10,252 were females, making the total Birth-rate of the City equal to 37·5 per 1,000; the average of the previous ten years being 38·3.

The Distribution of the births in the different wards and districts of the City has been arranged in the following table :—

BIRTHS.

DISTRICTS AND WARDS.		1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Annual Births
		Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	
Parish.	Scotland	359	352	374	301	330	316	332	316	2680
	Vauxhall	78	57	65	66	59	66	72	67	530
	St. Paul's and Exchange..	81	83	89	79	83	66	68	68	617
	St. Anne's and Lime Street	158	142	123	134	133	149	135	126	1100
	Castle Street and St. Peter's	18	19	15	10	26	9	23	23	143
	Pitt Street and Gt. George	71	90	94	69	78	76	68	65	611
	Rodney St. & Abercromby	173	177	150	160	159	136	164	141	1260
Out-Townships.	Everton	562	574	508	505	532	543	525	521	4270
	Kirkdale	334	355	286	288	317	299	313	297	2489
	West Derby	376	335	337	339	315	333	342	341	2718
	The Toxteths	565	517	566	532	548	537	506	573	4344
Parish		938	920	910	819	868	818	862	806	6941
Out-Townships		1837	1781	1697	1664	1712	1712	1686	1732	13821
City		2775	2701	2607	2483	2580	2530	2548	2538	20762

DEATHS.

Of the 14,733 deaths 7,643 were of males, and 7,090 of females; 7,155 occurred in the Parish, and 7,578 in the Out-townships.

The Death-rate of the City was equal to 26·6 per 1,000. The average of the previous ten years was 28·5 per 1,000.

The following table shows the actual number of deaths registered in the Parish and Out-townships, previous to the transference to the districts from whence the patients were removed, of the deaths occurring in the Workhouses and Hospitals.

The deaths occurred in the following districts :—

DISTRICTS.		1st Quarter.		2nd Quarter.		3rd Quarter.		4th Quarter.		Annual.
		Male.	Fe-male.	Male.	Fe-male.	Male.	Fe-male.	Male.	Fe-male.	Deaths.
Parish.	Scotland	256	241	245	216	264	216	275	253	1966
	Vauxhall	68	64	46	42	62	57	67	55	461
	St. Paul's and Exchange	87	100	67	58	63	55	97	89	616
	St. Anne's and Lime Street	127	127	99	91	118	113	99	119	893
	Castle Street and St. Peter's	16	23	20	14	13	13	19	24	142
	Pitt Street and Great George	58	57	38	45	45	52	51	69	415
	Rodney Street and Abercromby	94	111	80	83	70	64	95	88	685
	Parish Workhouse and Hospitals	385	237	281	196	225	158	273	222	1977
Out-Townships.	Everton	291	323	255	286	287	296	291	294	2323
	Kirkdale	160	159	122	123	164	134	161	140	1163
	West Derby	180	177	145	177	198	185	186	181	1429
	The Toxteths	266	282	246	259	292	264	315	318	2242
	Out-Township Workhouse and Hospitals	80	43	79	47	62	27	60	23	421
Parish		1091	960	876	745	860	728	976	919	7155
Out-Townships		977	984	847	892	1003	906	1013	956	7578
City		2068	1944	1723	1637	1863	1634	1989	1875	14733

From the returns made as to the residences of persons dying in the Workhouses and Hospitals of the town, we are able to classify 2,028 of the deaths in these establishments under the wards from whence the patients were removed, viz., 463 under Scotland Ward, 221 under Vauxhall Ward, 72 under St. Paul's Ward, 114 under Exchange Ward, 264 under St. Anne's Ward, 63 under Lime Street Ward, 4 under Castle Street Ward, 20 under St. Peter's Ward, 72 under Pitt Street Ward, 82 under Great George's Ward, 74 under Rodney Street Ward, 95 under Abercromby Ward, 190 under the Out-township of Everton, 58 under that of Kirkdale, 128 under West Derby Ward, 41 under North Toxteth Ward, and 67 under South Toxteth Ward. This will leave unclassified 212 deaths of persons whose previous residences were either unknown or not specified; and these, in the absence of definite information,

have been placed in the Wards in proportion to the number of total deaths ; and 158 who were residents outside the City.

The results of the alterations occasioned by this re-arrangement of the deaths in the wards and districts will be shown in the following table, from which a calculated rate of mortality per 1,000 of the estimated inhabitants has been made.

WARDS.	Annual.	
	Deaths.	Rate per 1000.
Scotland	2465	35·0
Vauxhall	692	45·2
St. Paul's	398	37·1
Exchange	416	45·5
St. Anne's	938	37·3
Lime Street	300	26·1
Castle Street	24	22·2
St. Peter's	144	26·0
Pitt Street	248	32·0
Great George	330	29·8
Rodney Street	424	23·0
Abercromby	442	18·8
Everton	2550	23·1
Kirkdale.....	1239	21·0
West Derby	1580	23·2
North Toxteth	1309	20·4
South Toxteth	1076	24·8
Hospitals (Residences outside City)	158	..
	14733	26·6

The following table shows the natural increase or decrease of population, and the number of births and deaths during the year 1881, in the several districts of the City :—

DISTRICTS AND WARDS.	Births.	Deaths.	Increase.	Decrease
Scotland	2680	2465	215	..
Vauxhall	530	692	..	162
St. Paul's and Exchange.....	617	814	..	197
St. Anne's and Lime Street	1100	1238	..	138
Castle Street and St. Peter's	143	168	..	25
Pitt Street and Gt. George.....	611	578	33	..
Rodney Street and Abercromby	1260	866	394	..
Everton	4270	2550	1720	..
Kirkdale... ..	2489	1239	1250	..
West Derby	2718	1580	1138	..
The Toxteths.....	4344	2385	1959	..
City	20762	14575	6187	..
Hospitals (Residences outside City) .....	..	158	..	..
Total.....	20762	14733	6029	..

The following table, taken from the Registrar-General's Reports, will enable us to compare the mortality of Liverpool with twenty-two of the large towns of the United Kingdom:—

TOWNS.	Estimated Population in the middle of the year 1881.	Births in 52 Weeks, ending 31st Dec., 1881.	Deaths in 52 Weeks, ending 31st Dec., 1881.	Annual Rate to 1,000 of Population.		Population on Acre.
				Births.	Deaths.	
London	3829751	132674	81071	34·7	21·1	50·8
Brighton	107934	3287	2048	30·5	18·9	45·9
Portsmouth	128335	4398	2515	34·3	19·6	28·6
Norwich	88038	2950	1707	33·5	19·4	11·8
Plymouth	75262	2407	1463	32·0	19·4	54·0
Bristol	207140	7140	4054	34·5	19·5	46·5
Wolverhampton	75934	2721	1604	35·9	21·1	22·4
Birmingham	402296	14908	8009	37·1	19·9	47·9
Leicester	123120	4711	2678	38·3	21·7	38·5
Nottingham	188035	6871	4193	36·6	22·3	18·9
Manchester	341269	12549	8664	36·8	25·4	79·5
Salford	177760	6880	4008	38·7	22·5	34·4
Oldham	112176	3957	2548	35·3	22·7	24·0
Bradford	184037	6058	3612	32·9	19·6	25·5
Leeds	310490	11379	6675	36·7	21·5	14·4
Sheffield	285621	10820	5993	37·9	21·0	14·5
Hull	155161	5634	3677	36·3	23·7	42·7
Sunderland	116753	4587	2439	39·3	20·9	42·2
Newcastle-on-Tyne	145675	5347	3163	36·7	21·7	27·1
Edinburgh	229012	7343	4607	32·1	20·1	54·6
Glasgow	512034	19077	12902	37·3	25·2	84·9
Dublin	349506	10155	9424	29·1	27·0	34·8
Liverpool	553988	20762	14733	37·5	26·6	106·3

The deaths of Infants below the fifth year of their age amounted to 6,613, and thus comprised 44·9 per cent. of the whole deaths; the average number for the preceding ten years was 6,940, and the average percentage 46·9. The deaths of Infants below one year of age amounted to 3,587, or 17·3 per cent. of all the children born within the City died before attaining the age of twelve months.

The first of the following tables shows the districts where Infantile Mortality was relatively and absolutely greatest, the second table illustrates the influence of age on the death-rate of the City, and the third table places, in one connected view, the pathological history of the death registry.

WARDS.		Quarters.				Annual.	Per Cent- age of Deaths under 5 years to Total Deaths.
		March.	June.	Sept.	Dec.		
Scotland	{ Total Deaths..	497	461	480	528	1966	} 55·6
	{ Below 5 years..	221	243	315	314	1093	
Vauxhall	{ Total Deaths..	132	88	119	122	461	} 51·6
	{ Below 5 years..	52	42	76	68	238	
St. Paul's	{ Total Deaths..	105	65	52	98	320	} 45·0
	{ Below 5 years..	35	19	26	64	144	
Exchange	{ Total Deaths..	82	60	66	88	296	} 44·3
	{ Below 5 years..	25	28	40	38	131	
St. Anne's	{ Total Deaths..	179	138	181	162	660	} 53·2
	{ Below 5 years..	67	82	106	96	351	
Lime Street	{ Total Deaths..	75	52	50	56	233	} 47·6
	{ Below 5 years..	33	24	27	27	111	
Castle Street	{ Total Deaths..	2	7	6	5	20	} 30·0
	{ Below 5 years..	1	0	3	2	6	
St. Peter's	{ Total Deaths..	37	27	20	38	122	} 40·2
	{ Below 5 years..	10	10	12	17	49	
Pitt Street	{ Total Deaths..	48	47	36	41	172	} 43·6
	{ Below 5 years..	17	22	15	21	75	
Great George	{ Total Deaths..	67	36	61	79	243	} 43·2
	{ Below 5 years..	19	14	25	47	105	
Rodney Street.....	{ Total Deaths..	100	84	70	90	344	} 36·0
	{ Below 5 years..	34	23	32	35	124	
Abercromby.....	{ Total Deaths..	105	79	64	93	341	} 32·6
	{ Below 5 years..	28	24	24	35	111	
Parish Workhouse and Hospitals	{ Total Deaths..	622	477	383	495	1977	} 17·8
	{ Below 5 years..	89	85	74	104	352	
Everton.....	{ Total Deaths..	614	541	583	585	2323	} 50·6
	{ Below 5 years..	275	268	339	294	1176	
Kirkdale	{ Total Deaths..	319	245	298	301	1163	} 50·9
	{ Below 5 years..	145	119	161	167	592	
West Derby.....	{ Total Deaths..	357	322	383	367	1429	} 52·6
	{ Below 5 years..	170	148	250	184	752	
North Toxteth.....	{ Total Deaths..	315	288	298	348	1249	} 49·6
	{ Below 5 years..	123	125	162	210	620	
South Toxteth.....	{ Total Deaths..	233	217	258	285	993	} 57·0
	{ Below 5 years..	116	104	162	184	566	
Out-Township Workhouse and Hospitals	{ Total Deaths..	123	126	89	83	421	} 4·0
	{ Below 5 years..	2	6	4	5	17	
Parish	{ Total Deaths..	2051	1621	1588	1895	7155	} 40·4
	{ Below 5 years..	631	616	775	868	2890	
Out-Townships	{ Total Deaths..	1961	1739	1909	1969	7578	} 49·1
	{ Below 5 years..	831	770	1078	1044	3723	
City	{ Total Deaths..	4012	3360	3497	3864	14733	} 44·9
	{ Below 5 years..	1462	1386	1853	1912	6613	

AGES.	Quarters.				Annual.	
	March.	June.	Sept.	Dec.	Deaths.	Rate per 1000 of population.
Deaths below 1 year of age	830	789	1045	923	3587	6.5
„ between 1 year and 5	632	597	808	989	3026	5.5
„ „ 5 „ 20	265	281	273	300	1119	2.0
„ „ 20 „ 60	1495	1173	958	1143	4769	8.6
„ above 60 years	789	518	413	509	2229	4.0
„ at ages unknown	1	2	..	..	3	..
„ at all ages	4012	3360	3497	3864	14733	26.6

The Registrars' Returns show that there were 16 deaths (14 of women and 2 of men) at the age of 90 and upwards, viz., 1 male and 3 females at 90, 1 female at 91, 2 females at 92, 1 female at 93, 1 female at 94, 1 female at 95, 2 females at 97, 1 female at 99, 1 male at 101, 1 female at 104, and 1 female at 106.

CLASSES.	QUARTERS.				YEAR 1881.
	March.	June.	Sept.	Dec.	
1. Zymotic Diseases	462	539	948	867	2816
2. Diseases of Uncertain Seat	78	94	91	115	378
3. Tubercular Diseases	504	496	449	431	1880
4. Diseases of Brain, &c.	379	391	365	372	1507
5. „ of Heart, &c.	254	169	153	166	742
6. „ of Lungs, &c.	1343	847	600	1021	3811
7. „ of Stomach, &c.	150	149	167	170	636
8. „ of Kidneys, &c.	78	62	53	62	255
9. Childbirth, Diseases of Uterus, &c.	33	21	24	24	102
10. Rheumatism, Diseases of the Joints, &c.	16	23	17	18	74
11. Diseases of the Skin, Cellular Tissue, &c.	11	10	17	21	59
12. Malformations	12	11	7	20	50
13. Premature Birth	73	66	72	57	268
14. Atrophy and Debility	202	191	241	214	848
15. Old Age	164	91	97	96	448
16. Privation, Cold, &c.	2	1	1	..	4
17. Inquests	240	191	186	203	820
Causes not specified	11	8	9	7	35
All Causes	4012	3360	3497	3864	14733
Total Zymotics	462	539	948	867	2816
Smallpox	1	18	12	3	34
Measles	24	128	234	370	756
Scarlatina	94	57	133	151	435
Hooping Cough	144	115	80	63	402
Diarrhœa	36	45	341	86	508
Fever	65	93	59	75	292

ZYMOTICS.

This class of diseases occasioned 2,816 deaths during the year 1881, and accounted for 19·1 per cent. of the total mortality within the City during the same period. The average number of deaths from these diseases for the preceding ten years was 3,497, and the percentage death rate for 1881 was 4·2 per cent. less than the proportional rate of zymotic deaths to deaths from all causes during the preceding decennial period. The following table shows the localities and the periods of their fatal prevalence :—

WARDS, &c.	Deaths from all Causes.	ZYMOTICS.				
		Quarters.				Per Centage of Zymotic Deaths to Deaths from all Causes.
		March.	June.	Sept.	Dec.	
Scotland	1966	80	95	152	126	23·0
Vauxhall	461	19	13	39	22	20·2
St. Paul's	320	14	4	15	27	18·8
Exchange	296	6	3	22	24	18·6
St. Anne's	660	18	34	60	30	21·5
Lime Street	233	6	10	13	10	16·7
Castle Street	20	..	..	..	1	5·0
St. Peter's	122	4	2	6	4	13·1
Pitt Street	172	6	1	8	10	14·5
Great George	243	2	5	14	23	18·1
Rodney Street	344	6	4	17	23	14·5
Abercromby	341	5	9	11	11	10·6
Liverpool Workhouse Hospital	1544	39	64	54	98	16·5
Royal Infirmary	240	1	1	..	..	0·8
Children's Infirmary	56	..	2	3	4	16·1
Lying-in Hospital	7	2	..	..	..	28·6
Consumption Hospital	14	..	..	..	..	..
North Hospital	116	..	1	1	1	2·6
Stanley Hospital	32	..	..	..	..	..
Royal South Hospital	149	1	2	1	1	3·4
Netherfield Road Hospital	32	4	15	3	7	90·6
West Derby Union Hospital	208	12	11	12	4	18·8
Everton	2323	88	101	175	111	20·4
Kirkdale	1163	41	51	84	65	20·7
West Derby	1429	41	44	109	66	18·2
North Toxteth	1249	34	31	68	121	20·3
South Toxteth	993	33	36	81	78	23·0
Parish	7155	208	248	415	414	18·0
Out-Townships	7578	254	291	533	453	20·2
City	14733	462	539	948	867	19·1

FEVER.

Fever accounted for 292 deaths within the City of Liverpool, or for 170 in the Parish and 122 in the Out-Townships, being an increase of 36 on the previous year. (The average number of deaths for the preceding ten years was 409). The rate of its mortality was equal to 0·5 per 1,000 of the estimated population. Its percentage rate relatively to deaths from all causes was 1·6 during the first, 2·8 during the second, 1·7 during the third, and 1·9 during the fourth quarter of the year. Its annual rate relatively to deaths from all causes

was 2·0 per cent., and relatively to deaths from zymotic causes 10·4 per cent. Its deaths included 150 males and 142 females; 84 persons below the age of 15, 82 between the ages of 15 and 30, and 126 above the age of 30.

Under the term Fever every form of continued fever is included; but the registers of deaths attribute 4 cases to gastric fever, 81 to typhoid fever, 35 to enteric fever, 12 to continued fever, 2 to febris, 143 to typhus, 10 to fever, and under that of febricula 5 deaths.

The following tables are in themselves sufficiently explanatory. The first compares the averages of deaths from fever during the preceding ten years with those during 1881; the second and third tables show the districts of the town and the periods of the year in which all forms of continued fever were most fatally prevalent; the fourth marks in streets the habitats of the disease; and the remaining tables the occupations and positions of its victims.

WARDS.	Exact Average of Fever Deaths for Pre- ceding Ten Years.	Deaths from Fever during the Year 1881.
Scotland.....	47	32
Vauxhall	9	9
St. Paul's	7	4
Exchange	5	9
St. Anne's	18	7
Lime Street	6	3
Castle Street.....	1	..
St. Peter's	3	1
Pitt Street.....	5	2
Great George.....	8	2
Rodney Street	6	1
Abercromby	9	4
Everton	72	26
Kirkdale		23
West Derby	23	10
North Toxteth	19	11
South Toxteth	23	21
Hospital Deaths	148	127
Total	409	292

In the above table the averages have been calculated without making allowance for increase of population.

DEATHS FROM FEVER DURING THE YEAR 1881.

WARDS.	January.				February.				March.				Apl.	April.				May.				June.				Jly.	Quarter.
	January.				February.				March.					April.				May.				June.					
	8	15	22	29	5	12	19	26	5	12	19	26		9	16	23	30	7	14	21	28	4	11	18	25		
Scotland	2	..	..	2	1	1	1	3	..	..	..	1	14	2	4	1	4	1	2	1	..	3	1	2	24
Vauxhall .....	..	..	..	..	1	1	1	..	1	..	..	..	5	..	..	..	..	..	..	..	..	1	..	..	12
St. Paul's .....	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1
Exchange .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	5
St. Anne's	1	1	1	..	..	1	..	1	..	..	..	..	3	..	..	..	..	2	..	1	..	..	..	..	1
Lime Street	1	2	1	..	..	..	..	1	..	..	..	..	5	..	..	..	1	..	2	1	..	1	1	..	7
Castle Street .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1
St. Peter's .....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Pitt Street .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1
Great George .....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	1
Rodney Street .....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	1
Abercromby .....	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	1
Everton .....	..	1	..	4	..	2	..	..	1	..	1	1	2	..	..	1	1	1	..	..	..	..	1	1	1
Kirkdale	1	..	..	..	1	2	..	..	..	1	1	1	10	1	1	1	1	2	1	..	..	1	1	1	9
West Derby	1	..	1	..	1	2	2	1	..	1	1	1	7	1	1	1	1	1	1	1	..	1	1	1	7		
North Toxteth	1	..	1	..	1	1	1	1	..	1	1	1	3	1	1	1	1	1	1	1	..	1	1	1	6		
South Toxteth .....	..	2	..	..	1	2	1	..	..	1	1	1	5	1	1	1	1	1	..	2	..	1	1	1	4
Hospitals (Residences out of City) ..	..	..	..	..	1	..	..	..	..	..	..	..	7	..	..	..	..	1	..	..	..	..	..	..	5
Hospitals (Residences unknown) ..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	3
Total	5	7	2	6	5	10	7	6	1	1	5	5	65	6	13	5	9	10	10	8	5	5	6	3	5	93	

WARDS.	July.				August.				September.				Oct.	October.				November.				December.				Quarter.	Year.	
	July.				August.				September.					October.				November.				December.						
	9	16	23	30	6	13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26	3	10	17	24	31		
Scotland	2	2	1	..	2	1	1	1	2	1	2	2	15	1	..	1	1	1	1	2	1	1	10		
Vauxhall .....	..	..	..	..	1	..	..	1	..	..	..	..	3	..	1	2	..	1	1	1	..	..	..	..	6
St. Paul's .....	..	..	1	..	..	1	..	..	..	..	2	..	..	1	1	..	..	..	..	..	..	..	..	..	2
Exchange	1	1	..	..	..	1	1	1	..	2	1	2	1	..	1	..	2	..	1	..	1	1	1	1	2
St. Anne's .....	..	..	..	..	..	..	..	..	..	..	..	..	7	..	..	..	..	..	..	..	..	..	..	..	6
Lime Street .....	..	..	..	..	..	..	..	..	..	..	..	..	5	..	..	1	..	..	..	..	..	..	..	..	3
Castle Street .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
St. Peter's .....	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6
Pitt Street .....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
Great George .....	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	2
Rodney Street .....	..	1	..	..	..	..	1	..	..	..	..	5	..	..	..	1	2	..	1	1	1	1	1	1	5
Abercromby .....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
Everton .....	..	2	..	..	1	..	1	..	..	..	5	1	..	..	..	..	..	..	..	..	..	..	..	..	3
Kirkdale .....	..	1	..	..	..	2	..	..	1	..	1	1	10	1	1	1	1	1	1	1	..	..	..	..	5
West Derby	1	..	1	..	1	2	1	..	1	1	1	1	7	1	1	1	1	1	1	1	..	1	1	1	9			
North Toxteth	1	..	1	..	1	1	1	1	1	1	1	1	3	1	1	1	1	1	1	1	..	1	1	1	7			
South Toxteth .....	..	2	..	..	1	2	1	..	1	1	1	1	5	1	1	1	1	1	1	1	..	1	1	1	6
Hospitals (Residences out of City) ..	..	..	..	..	1	..	..	..	..	..	..	..	7	..	..	..	..	1	..	2	..	..	..	..	4
Hospitals (Residences unknown) ..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	5
Total	4	7	2	3	5	5	5	4	4	3	6	11	59	2	9	9	5	8	6	6	5	4	6	7	2	75		
																									292			

In arranging this table, all Deaths occurring in Hospitals, have been transferred to the Wards from which they were removed.

In arranging this table, all Deaths occurring in Hospitals, have been transferred to the Wards from whence they came.

DEATHS FROM FEVER.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	TOTAL
Scotland	{ Below 5 years ..		1	..	1	..	1	..	..	..	3	..	3
	{ Above 5 years ..		3	4	3	5	7	1	4	2	17	12	29
Vauxhall	{ Below 5 years ..		..	..	..	1	1	..	1	..	2	1	3
	{ Above 5 years ..		1	..	1	2	..	..	2	..	4	2	6
St. Paul's	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	1	..	1	..	1	..	1	..	4	4
Exchange.....	{ Below 5 years ..		..	..	..	..	2	1	1	..	3	1	4
	{ Above 5 years ..		..	..	2	..	2	..	1	..	5	..	5
St. Anne's	{ Below 5 years ..		..	..	1	..	..	..	..	..	1	..	1
	{ Above 5 years ..		2	..	..	1	1	2	..	..	3	3	6
Lime Street	{ Below 5 years ..		1	..	..	..	..	..	..	..	1	..	1
	{ Above 5 years ..		2	..	..	..	..	..	..	..	2	..	2
Castle Street	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	1	..	..	..	..	..	1	1
Pitt Street	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		1	..	..	..	..	1	..	..	1	1	2
Great George	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	1	1	..	..	..	1	1	2
Rodney Street.....	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	1	..	..	..	..	..	1	..	1
Abercromby.....	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		1	1	1	..	1	..	..	..	3	1	4
Parish Workhouse and Hospitals	{ Below 5 years ..		..	..	..	2	..	..	..	1	..	3	3
	{ Above 5 years ..		6	8	18	15	9	7	15	15	48	45	93
Out-Township Workhouse and Hospitals.	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		4	7	4	9	1	1	2	3	11	20	31
Everton.....	{ Below 5 years ..		..	..	1	1	1	1	..	1	2	3	5
	{ Above 5 years ..		4	2	2	3	1	1	3	5	10	11	21
Kirkdale	{ Below 5 years ..		..	..	..	..	..	1	..	..	..	1	1
	{ Above 5 years ..		2	4	..	6	3	2	2	3	7	15	22
West Derby.....	{ Below 5 years ..		..	..	2	..	1	..	..	..	3	..	3
	{ Above 5 years ..		..	..	1	..	1	..	4	1	6	1	7
North Toxteth	{ Below 5 years ..		..	..	..	..	1	..	..	..	1	..	1
	{ Above 5 years ..		3	1	..	2	1	..	1	2	5	5	10
South Toxteth.....	{ Below 5 years ..		..	..	..	..	..	..	..	1	..	1	1
	{ Above 5 years ..		3	3	3	2	2	3	2	2	10	10	20
Parish	{ Below 5 years ..		2	..	2	3	4	1	2	1	10	5	15
	{ Above 5 years ..		16	14	26	26	21	12	22	18	85	70	155
Out-Townships	{ Below 5 years ..		..	..	3	1	3	2	..	2	6	5	11
	{ Above 5 years ..		16	17	10	22	9	7	14	16	49	62	111
City	{ Below 5 years ..		2	..	5	4	7	3	2	3	16	10	26
	{ Above 5 years ..		32	31	36	48	30	19	36	34	134	132	266

List of Streets in the City wherein Two or more Deaths from Fever occurred during the Year 1881.

STREETS IN THE PARISH.	HOUSES.		Total.	STREETS IN THE OUT-TOWNSHIPS.	HOUSES.		Total.
	Front.	Court.			Front.	Court.	
Addison	2	2	4	Beaufort	2	..	2
Aldersey	2	..	2	Beresford .....	..	2	2
Beacon .....	..	2	2	Boundary	1	1	2
Beau	1	5	6	Buckingham	2	..	2
Bispham	2	..	2	Bulwer	2	..	2
Blandford	2	1	3	Cooper	2	..	2
Blenheim .....	..	4	4	Darnley	2	..	2
Bostock	2	..	2	Gordon	3	..	3
Brownlow Hill	2	..	2	Jenkinson .....	..	3	3
Denbigh	2	..	2	Kirkdale Road	2	..	2
Eaton	1	1	2	Lamb	2	..	2
Eccles	2	4	6	Mann	1	1	2
Ford .....	..	3	3	Mill	4	..	4
Great Richmond	4	..	4	Minto	3	..	3
Henry Edward	1	1	2	Northumberland	2	..	2
Hornby .....	..	2	2	Paulton	2	..	2
Maguire	1	1	2	Smith	2	..	2
Milton .....	..	3	3				
Naylor .....	..	2	2				
Oriel	3	4	7				
Paul	1	2	3				
Portland	1	1	2				
Primrose Hill	3	1	4				
Spring Place, Spring- field Street	2	..	2				

Occupations of Persons who (either themselves or members of their family) have died from Fever in the Workhouses or Hospitals of the City, tabulated into Wards from whence they came, during the Year 1881.

LIVERPOOL PARISH WORKHOUSE.

OCCUPATIONS.	WARDS.															Residence outside the City.	Residences unknown.	Total.
	Scotland.	Vauxhall.	St. Paul's.	Exchange.	St. Anne's.	Lime Street.	Castle Street.	St. Peter's.	Pitt Street.	Great George.	Rodney Street.	Abercromby.	Everton.	Kirkdale.	West Derby.			
Labourers	19	12	1	5	5	2	..	..	..	..	..	1	5	..	..	..	1	51
Tradesmen	8	3	..	3	5	2	..	..	..	..	..	..	4	..	4	..	2	31
Servants	3	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	6
Seamen	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3
Unknown . . . . .	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	2
Males	13	9	1	4	6	4	..	..	1	..	..	..	3	..	2	..	2	45
Females	18	8	..	4	5	..	..	..	..	..	..	1	7	..	2	1	2	48
Total	31	17	1	8	11	4	..	..	1	..	..	1	10	..	4	1	4	93

ROYAL INFIRMARY.

One Male, a Gilder, residence in West Derby Ward.

One Male, a Gardener, residence in North Toxteth Ward.

NORTHERN HOSPITAL.

One Male, a Seaman, residence unknown.

WEST DERBY UNION WORKHOUSE HOSPITAL (MILL ROAD).

OCCUPATIONS.	WARDS.			Residences outside the City.	TOTAL.
	Everton.	Kirkdale.	West Derby.		
Labourers	2	2	1	1	6
Tradesmen.....	5	..	2	1	8
Professions and Mercantile.....	1	..	1	..	2
Seamen .....	..	..	1	1	2
Servants .....	..	..	..	1	1
Males	1	2	3	2	8
Females	7	..	2	2	11
Total	8	2	5	4	19

EVERTON HOSPITAL (NETHERFIELD ROAD).

OCCUPATIONS.	WARDS.							Residence outside the City.	Residence unknown.	TOTAL.
	Exchange.	Castle Street.	Rodney Street.	Everton.	Kirkdale.	West Derby.	North Toxteth.	South Toxteth.		
Tradesmen.....	..	1	..	..	..	1	1	1	..	4
Professions and Mercantile .....	..	..	..	2	1	..	..	..	..	3
Servants.....	1	..	..	..	..	..	..	..	1	2
Seamen .....	..	..	1	..	..	..	..	..	1	2
Unknown .....	..	..	..	..	..	..	1	..	..	1
Males .....	..	..	..	1	..	..	..	1	1	3
Females	1	1	1	1	1	1	2	..	1	9
Total	1	1	1	2	1	1	2	1	1	12

Occupations of Persons who (either themselves or members of their family) have died from Fever in the different Wards of the City during the Year 1881. (Not included in the foregoing Tables of Deaths in Work-houses and Hospitals)

OCCUPATIONS.	WARDS.																	TOTAL.
	Scotland.	Vauxhall	St Paul's.	Exchange.	St. Anne's.	Lime Street.	Castle Street.	St. Peter's.	Pitt Street.	Great George.	Rodney Street.	Abercromby.	Everton.	Kirkdale.	West Derby.	North Toxteth.	South Toxteth.	
Labourers	17	7	2	6	1	1	..	..	1	1	..	..	7	6	3	3	11	66
Tradesmen	10	2	2	2	4	2	..	..	..	1	1	3	14	12	6	6	7	72
Seamen	5	..	..	..	1	..	..	..	..	..	..	..	..	4	..	1	1	12
Professions and Mercantile .....	..	..	..	1	..	..	..	..	..	..	..	1	5	1	1	1	1	11
Servants .....	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	1	3
Soldiers .....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1
Males	20	6	..	8	4	3	..	..	1	1	1	3	12	7	9	6	10	91
Females	12	3	4	1	3	..	..	1	1	1	..	1	14	16	1	5	11	74
Total	32	9	4	9	7	3	..	1	2	2	1	4	26	23	10	11	21	165

TOXTETH WORKHOUSE.

Not included in the Mortality of the City, being beyond the Municipal Boundaries.

OCCUPATIONS.	WARDS.		Total.
	North Toxteth.	South Toxteth.	
Labourers	2	2	4
Tradesmen.....	..	2	2
Servants.....	..	1	1
Males	2	1	3
Females .....	..	4	4
Total	2	5	7

SCARLATINA.

Scarlatina accounted during the year for 435 deaths, or for 195 in the Parish, and 240 in the Out-townships. (The average number of deaths for the preceding ten years was 606). The rate of its mortality was equal to 0·8 per 1,000 of the estimated population. Its rate relatively to deaths

from all causes was 2·3 per cent. in the first quarter, 1·7 in the second, 3·8 in the third, and 3·9 in the fourth quarter of the year; its annual rate relatively to all deaths was 3·0 per cent., and relatively to deaths from zymotic causes 15·4 per cent.

The first of the following tables gives a statistical history of the mortality of Scarlatina during the year 1881; the second is a record of the streets of the City wherein 3 or more deaths occurred from that disease.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..		12	11	4	9	9	3	9	8	34	31	65
	{ Above 5 years ..		5	2	2	4	..	4	4	3	11	13	24
Vauxhall	{ Below 5 years ..		..	3	..	..	..	..	2	..	2	3	5
	{ Above 5 years ..		1	1	..	..	..	..	..	..	1	1	2
St. Paul's	{ Below 5 years ..		1	1	..	..	..	1	1	..	2	2	4
	{ Above 5 years ..		1	..	..	..	2	..	..	..	3	..	3
Exchange	{ Below 5 years ..		1	1	..	..	..	..	2	..	1	3	4
	{ Above 5 years ..		..	..	..	..	..	1	..	..	1	..	1
St. Anne's	{ Below 5 years ..		1	2	1	1	1	5	4	6	7	14	21
	{ Above 5 years ..		..	..	..	2	..	..	2	1	2	3	5
Lime Street	{ Below 5 years ..		..	..	1	..	3	..	1	..	5	..	5
	{ Above 5 years ..		..	..	..	..	1	..	..	..	1	..	1
Castle Street	{ Below 5 years ..		..	..	..	..	..	..	1	..	..	1	1
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..		..	1	..	..	..	..	..	..	..	1	1
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years ..		1	..	..	..	..	..	1	1	1	1	2
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..		1	..	..	..	..	..	1	1	1	1	2
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Rodney Street	{ Below 5 years ..		1	..	..	..	..	..	1	..	2	..	2
	{ Above 5 years ..		..	..	..	..	..	..	1	1	1	1	2
Abercromby	{ Below 5 years ..		..	..	..	..	1	1	2	1	3	2	5
	{ Above 5 years ..		..	..	1	..	..	..	2	1	2	2	3
Parish Workhouse and Hospitals	{ Below 5 years ..		2	1	2	2	2	3	2	2	8	8	16
	{ Above 5 years ..		2	3	1	..	3	3	3	6	9	12	21
Out-Township Workhouse and Hospitals.	{ Below 5 years ..		..	..	..	..	..	..	1	..	1	..	1
	{ Above 5 years ..		..	..	..	1	..	..	1	..	1	1	2
Everton	{ Below 5 years ..		6	5	2	7	12	18	13	13	33	43	76
	{ Above 5 years ..		2	2	1	2	9	11	9	5	21	20	41
Kirkdale	{ Below 5 years ..		3	7	3	3	6	6	2	6	14	22	36
	{ Above 5 years ..		4	1	..	2	5	3	3	2	12	8	20
West Derby	{ Below 5 years ..		2	2	..	..	2	5	4	5	8	12	20
	{ Above 5 years ..		1	..	2	..	2	1	2	3	7	4	11
North Toxteth	{ Below 5 years ..		2	1	1	..	1	1	1	7	5	9	14
	{ Above 5 years ..		..	..	..	..	2	..	..	..	2	..	2
South Toxteth	{ Below 5 years ..		..	1	..	2	..	3	2	3	2	9	11
	{ Above 5 years ..		..	..	..	1	4	..	1	..	5	1	6
Parish	{ Below 5 years ..		20	20	8	12	16	13	22	22	66	67	133
	{ Above 5 years ..		9	6	4	6	6	7	11	13	30	32	62
Out-Townships	{ Below 5 years ..		13	16	6	12	21	33	23	34	63	95	158
	{ Above 5 years ..		7	3	3	6	22	15	16	10	48	34	82
City	{ Below 5 years ..		33	36	14	24	37	46	45	56	129	162	291
	{ Above 5 years ..		16	9	7	12	28	22	27	23	78	66	144

List of Streets in the City wherein Three or more Deaths from
Scarlatina occurred during the Year 1881.

STREETS IN THE PARISH.	HOUSES.		Total.	STREETS IN THE OUT- TOWNSHIPS.	HOUSES.		Total.
	Front.	Court.			Front.	Court.	
Ashfield	4	...	4	Arkwright	11	3	14
Athol	3	...	3	Arlington	5	..	5
Birchfield	5	...	5	Aughton	3	..	3
Bostock	3	...	3	Beatrice	6	..	6
Boundary	3	2	5	Cameron	3	..	3
Burlington	1	2	3	Cockerell	3	..	3
Dalrymple .....	..	3	3	Conway	3	..	3
Great Richmond	4	3	7	Elias	7	..	7
Hornby	1	2	3	Heriot	3	..	3
Islington	4	...	4	Jackson	4	...	4
Menai	2	2	4	Mill Road	3	..	3
Milford	3	..	3	Mitylene	3	..	3
Newsham	1	2	3	Robsart	3	4	7
Portland	3	...	3	Rose Vale	1	2	3
Rachel .....	..	4	4	Stitt	6	..	6
Webster	3	..	3	Zante	3	..	3
Woodstock	1	3	4				

MEASLES

Occasioned 756 deaths, of which 362 occurred in the Parish, and 394 in the Out-Townships. (The average number of deaths for the preceding ten years was 392.) Its percentage death-rate relatively to deaths from all causes was 0·6 in the first quarter of the year, 3·8 in the second, 6·7 in the third, and 9·6 in the fourth. Its annual percentage rate relatively to deaths from all causes was 5·1, and relatively to deaths from Zymotic causes 26·8.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{	Below 5 years	1	1	18	11	22	24	27	27	68	63	131
	{	Above 5 years	..	..	..	..	..	1	..	..	..	1	1
Vauxhall	{	Below 5 years	..	..	2	1	1	4	5	5	8	10	18
	{	Above 5 years	..	..	..	..	..	..	..	1	..	1	1
St. Paul's	{	Below 5 years	..	..	..	..	..	..	11	9	11	9	20
	{	Above 5 years	..	..	..	..	..	..	..	1	..	1	1
Exchange	{	Below 5 years	..	..	..	..	6	2	6	4	12	6	18
	{	Above 5 years	..	..	..	..	..	..	..	1	..	1	1
St. Anne's	{	Below 5 years	4	..	5	11	12	7	6	1	27	19	46
	{	Above 5 years	..	..	..	2	..	3	..	..	..	5	5
Lime Street	{	Below 5 years	1	1	2	1	..	1	..	4	3	7	10
	{	Above 5 years	..	..	1	..	..	..	..	..	1	..	1
Castle Street	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{	Below 5 years	..	..	..	..	2	1	1	1	3	2	5
	{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{	Below 5 years	..	..	..	..	..	1	..	4	..	5	5
	{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Great George	{	Below 5 years	..	..	..	..	1	3	9	10	10	13	23
	{	Above 5 years	..	..	..	..	..	..	1	1	1	1	2
Rodney Street	{	Below 5 years	..	..	..	..	4	4	6	5	10	9	19
	{	Above 5 years	..	..	1	..	..	2	..	1	1	3	4
Abercromby	{	Below 5 years	..	1	1	..	1	..	1	..	3	1	4
	{	Above 5 years	..	..	..	..	..	1	..	1	..	2	2
Parish Workhouse and Hospitals	{	Below 5 years	..	..	..	..	3	5	20	16	23	21	44
	{	Above 5 years	..	..	..	..	..	..	1	..	1	..	1
Out-Township Workhouse and Hospitals	{	Below 5 years	..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years	..	..	..	..	..	..	..	..	..	..	..
Everton	{	Below 5 years	5	4	19	20	19	17	14	11	57	52	109
	{	Above 5 years	..	..	2	..	..	..	2	1	4	1	5
Kirkdale	{	Below 5 years	1	1	6	9	12	7	8	6	27	23	50
	{	Above 5 years	..	..	..	..	..	1	2	1	2	2	4
West Derby	{	Below 5 years	..	1	4	5	14	14	4	7	22	27	49
	{	Above 5 years	..	..	..	1	..	..	2	1	2	2	4
North Toxteth	{	Below 5 years	1	1	..	2	7	8	45	31	53	42	95
	{	Above 5 years	..	..	..	..	2	..	3	6	5	6	11
South Toxteth	{	Below 5 years	..	1	1	3	8	10	17	20	26	34	60
	{	Above 5 years	..	..	..	..	3	1	3	..	6	1	7
Parish	{	Below 5 years	6	3	28	24	52	52	92	86	178	165	343
	{	Above 5 years	..	..	2	2	..	7	2	6	4	15	19
Out-Townships	{	Below 5 years	7	8	30	39	60	56	88	75	185	178	363
	{	Above 5 years	..	..	2	1	5	2	12	9	19	12	31
City	{	Below 5 years	13	11	58	63	112	108	180	161	363	343	706
	{	Above 5 years	..	..	4	3	5	9	14	15	23	27	50

DIARRHOEA

Accounted for 508 deaths, or for 256 in the Parish, and 252 in the Out-townships. (The average number of deaths for the preceding ten years was 846). Its percentage death-rate relatively to deaths from all causes was 0·9 in the first quarter of the year, 1·3 in the second, 9·8 in the third, and 2·2 in the fourth quarter. Its annual percentage rate relatively to deaths from all causes was 3·4, and relatively to deaths from Zymotic causes 18·0.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total
Scotland	{ Below 5 years ..		4	..	4	3	33	28	3	6	44	37	81
	{ Above 5 years ..		2	2	1	..	..	1	1	1	4	4	8
Vauxhall	{ Below 5 years ..		1	..	1	..	14	10	2	2	18	12	30
	{ Above 5 years ..		..	..	..	..	2	1	..	..	2	1	3
St. Paul's	{ Below 5 years ..		3	1	1	..	3	6	3	..	10	7	17
	{ Above 5 years ..		..	..	..	..	1	..	..	..	1	..	1
Exchange	{ Below 5 years ..		..	..	..	..	2	4	1	4	3	8	11
	{ Above 5 years ..		1	..	..	..	..	..	..	..	1	..	1
St. Anne's	{ Below 5 years ..		1	..	..	6	13	8	3	2	17	16	33
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Lime Street	{ Below 5 years ..		..	..	..	1	3	1	2	..	5	2	7
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..		..	1	..	1	2	..	..	..	2	2	4
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years ..		..	..	..	..	2	3	1	..	3	3	6
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..		..	..	1	..	2	4	..	1	3	5	8
	{ Above 5 years ..		..	..	..	1	..	..	..	..	..	1	1
Rodney Street	{ Below 5 years ..		..	..	..	..	3	3	..	..	3	3	6
	{ Above 5 years ..		..	1	..	..	..	..	..	1	..	2	2
Abercromby	{ Below 5 years ..		..	..	..	..	2	2	..	1	2	3	5
	{ Above 5 years ..		..	..	..	..	..	..	1	..	1	..	1
Parish Workhouse and Hospitals	{ Below 5 years ..		2	1	3	..	5	2	2	2	12	5	17
	{ Above 5 years ..		..	5	..	2	2	2	..	3	2	12	14
Out-Township Workhouse and Hospitals ..	{ Below 5 years ..		..	..	..	..	1	..	..	..	1	..	1
	{ Above 5 years ..		..	..	..	..	2	..	..	..	2	..	2
Everton	{ Below 5 years ..		4	2	2	2	22	22	5	3	33	29	62
	{ Above 5 years ..		..	..	1	1	4	2	2	2	7	5	12
Kirkdale	{ Below 5 years ..		..	..	1	..	15	12	3	1	19	13	32
	{ Above 5 years ..		..	..	..	..	..	..	1	..	1	..	1
West Derby	{ Below 5 years ..		1	..	2	..	26	15	1	8	30	23	53
	{ Above 5 years ..		..	..	..	1	1	..	1	2	2	3	5
North Toxteth	{ Below 5 years ..		1	..	1	1	14	14	5	3	21	18	39
	{ Above 5 years ..		..	..	2	1	..	..	..	1	2	2	4
South Toxteth	{ Below 5 years ..		2	1	1	2	16	11	2	4	21	18	39
	{ Above 5 years ..		..	..	1	1	..	..	..	..	1	1	2
Parish	{ Below 5 years ..		11	3	10	11	84	71	17	18	122	103	225
	{ Above 5 years ..		3	8	1	3	5	4	2	5	11	20	31
Out-Townships	{ Below 5 years ..		8	3	7	5	94	74	16	19	125	101	226
	{ Above 5 years ..		..	..	4	4	7	2	4	5	15	11	26
City	{ Below 5 years ..		19	6	17	16	178	145	33	37	247	204	451
	{ Above 5 years ..		3	8	5	7	12	6	6	10	26	31	57

List of Streets in the City wherein Three or more Deaths from
Diarrhoea occurred during the Year 1881.

STREETS IN THE PARISH.	HOUSES.		Total.	STREETS IN THE OUT- TOWNSHIPS.	HOUSES.		Total.
	Front.	Court.			Front.	Court.	
Addison	1	2	3	Anthony	3	..	3
Ascot	3	..	3	Beaufort	5	..	5
Athol	3	..	3	Buckingham.	3	..	3
Bispham	2	1	3	Harding	1	3	4
Burlington	2	2	4	Harold	4	..	4
Christian	3	1	4	Howe	3	..	3
Darwen	3	..	3	Robertson	3	..	3
Dryden .....	..	4	4				
Duckinfield	1	2	3				
Ennerdale	2	1	3				
Gildart's Gardens	1	2	3				
Hornby	3	1	4				
Limekiln Lane	3	1	4				
Paul	2	1	3				
Raymond	3	..	3				
Richmond Row	2	1	3				
Saltney	1	2	3				
Scotland Road	3	1	4				
Steel	3	..	3				
Tatlock	2	2	4				
Vauxhall Road	3	1	4				

DIARRHŒA IN DATES OF DEATH, 1881.

DATE. June.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		WIND.	
				Amount in Inches.	Hours.	Mean Daily Velocity in Miles.	DIRECTION.
1	..	30·268	62·0	..	..	105	NW
2	..	30·181	60·8	..	..	135	NW & W
3	..	30·172	58·9	..	..	286	W
4	..	29·888	58·9	0·630	11·5	493	SW & W
5	..	29·532	51·8	..	..	398	W & NW
6	1	29·521	45·8	0·240	7·4	401	NW & W
7	..	29·708	47·6	0·140	3·7	268	NW & Var.
8	1	30·084	48·6	0·022	0·5	235	NE & NW
9	..	30·241	50·1	..	..	224	NW & N
10	..	30·128	50·4	0·090	7·7	243	SE & Var.
11	..	29·998	54·2	..	..	214	E
12	..	30·042	54·4	..	..	306	W & NW
13	1	30·073	54·0	..	..	256	NW & W
14	1	30·001	59·7	..	..	264	SE & Var.
15	..	29·916	59·7	0·062	3·7	213	SE & S
16	1	29·858	59·3	0·164	6·6	374	SE & E
17	..	29·765	61·5	0·070	10·0	437	SE & E
18	..	29·718	59·3	0·002	0·3	439	SE & SW
19	1	29·728	60·2	0·170	2·6	179	S & Var.
20	..	29·630	59·6	0·071	3·1	340	SW & Var.
21	..	29·403	60·2	0·089	1·6	510	S & Var.
22	..	29·557	57·7	0·030	1·2	496	SW
23	2	30·056	53·6	..	..	494	W
24	1	30·172	59·2	0·329	6·3	238	S & SE
25	3	29·937	58·5	..	..	408	W & Var.
26	2	30·125	56·9	0·023	2·0	315	NW
27	1	29·916	55·7	0·060	2·5	311	NW & SW
28	2	30·049	56·1	..	..	499	W
29	3	30·166	58·3	0·020	1·5	439	SW & W
30	2	30·095	58·2	0·120	2·6	393	S & SE

DIARRHŒA IN DATES OF DEATH, 1881.

DATE. July.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		Mean Daily Velocity in Miles.	WIND. DIRECTION.
				Amount in Inches.	Hours.		
1	..	29·994	57·7	..	..	298	W & SW
2	2	30·107	60·4	..	..	494	SW
3	..	30·031	66·3	..	..	192	NW
4	..	30·123	69·1	..	..	420	SW
5	2	30·028	68·5	0·720	6·2	177	SE & Var.
6	..	29·785	53·2	0·028	0·7	791	W
7	1	29·970	56·1	..	..	354	W & SW
8	1	29·949	55·3	0·015	1·2	187	W & NW
9	2	29·961	60·7	0·011	0·8	243	SW & W
10	1	30·075	61·0	..	..	561	W & SW
11	2	30·069	65·4	..	..	326	SW & S
12	2	30·073	61·3	..	..	253	W & Var.
13	2	30·163	65·6	..	..	476	SW & W
14	2	30·223	64·5	..	..	212	N & Var.
15	1	30·101	64·7	0·003	0·8	184	NW & W
16	3	30·130	58·6	..	..	260	NW
17	5	30·044	66·3	..	..	368	SW
18	6	29·953	63·4	0·190	7·2	289	W & SW
19	4	29·899	58·5	0·034	1·5	179	W & Var.
20	6	29·878	57·8	..	..	518	W & SW
21	4	30·021	56·5	0·020	1·0	287	NW
22	..	29·826	60·5	0·027	0·5	410	W & S
23	8	29·887	57·8	0·167	4·3	156	W
24	4	29·741	57·5	0·052	0·6	434	SW
25	4	29·583	57·1	0·030	0·5	809	W
26	2	29·664	56·6	0·155	0·6	380	W
27	5	30·014	56·2	..	..	430	W & NW
28	7	30·030	61·3	0·207	3·7	399	SW & S
29	5	29·865	56·9	..	..	477	W & SW
30	8	29·763	60·3	0·300	6·5	280	SW & S
31	3	29·443	58·9	0·643	1·7	518	S & SE

DIARRHŒA IN DATES OF DEATH, 1881.

DATE. August.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		WIND.	
				Amount in Inches.	Hours.	Mean Daily Velocity in Miles.	DIRECTION.
1	8	29.796	56.5	..	..	306	W & NW
2	5	30.066	61.6	0.063	1.8	243	SW & S
3	7	30.089	63.1	..	..	480	SW & W
4	6	30.208	64.3	..	..	378	SW & W
5	8	29.947	66.3	0.015	0.7	484	SW & SE
6	5	30.015	59.2	..	..	584	SW & W
7	6	29.984	63.3	0.068	0.8	417	SW & S
8	7	29.645	58.3	0.518	6.3	262	W & SW
9	6	29.629	56.4	..	..	589	W
10	4	29.753	57.6	0.100	2.0	714	W & SW
11	3	29.870	53.7	0.274	8.0	495	W & Var.
12	3	29.757	55.3	0.018	0.4	324	W & NW
13	12	29.683	53.4	0.152	2.9	872	W
14	3	29.808	55.6	..	..	744	W
15	5	29.791	56.2	0.028	2.5	309	W & SW
16	7	29.571	56.2	0.100	2.8	129	SE & Var.
17	9	29.395	56.8	0.103	1.5	260	W & NW
18	5	29.588	56.2	0.329	3.3	361	W & NW
19	8	29.471	58.6	0.098	2.2	607	W & SE
20	4	29.802	55.2	..	..	478	W
21	6	29.761	53.7	..	..	215	SE & S
22	4	29.796	58.2	0.063	2.5	189	SE & W
23	2	29.667	58.7	0.133	3.0	171	E & NE
24	5	29.612	53.3	0.164	2.7	687	W
25	5	29.460	56.8	0.563	5.2	502	SE & Var.
26	6	29.242	53.2	0.408	9.8	834	SW & W
27	6	29.738	52.6	0.089	0.6	351	W & Var.
28	3	29.970	55.4	0.238	5.9	484	W & SW
29	4	29.832	60.2	0.812	7.5	331	SE & Var.
30	..	29.919	51.1	..	..	346	NE & Var.
31	3	30.249	52.4	..	..	314	N & NE

DIARRHŒA IN DATES OF DEATH, 1881.

DATE. Sept.	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		Mean Daily Velocity in Miles.	WIND. DIRECTION.
				Amount in Inches.	Hours.		
1	4	30·321	51·5	..	..	330	N & NW
2	4	30·287	52·5	..	..	214	N & NE
3	3	30·109	54·7	..	..	214	N & NE
4	2	29·945	55·5	0·013	0·3	235	NE & N
5	2	29·758	54·5	..	..	377	E & NE
6	5	29·546	53·4	..	..	181	NE & Var.
7	3	29·632	56·0	0·005	0·4	146	W & Var.
8	5	29·759	56·2	..	..	172	W & NW
9	3	29·920	56·3	..	..	154	W
10	2	30·066	55·1	..	..	222	NE & N
11	6	30·083	53·6	..	..	200	N & NE
12	2	30·070	56·3	..	..	133	NW & N
13	7	30·077	53·9	..	..	167	W
14	4	30·101	55·1	..	..	166	W & SW
15	3	30·159	52·7	..	..	234	W & NW
16	2	30·190	52·3	..	..	208	NW & W
17	2	29·906	56·6	0·158	4·7	393	SE
18	3	29·643	57·8	0·004	0·4	274	SE & W
19	1	29·780	56·3	..	..	193	W
20	1	29·700	61·9	0·270	1·9	466	SE
21	..	29·400	56·6	0·070	1·8	390	E & Var.
22	1	29·658	54·9	0·012	0·7	384	W & NW
23	2	30·020	54·7	..	..	357	E
24	2	30·064	55·4	0·496	9·0	477	SE
25	1	30·005	55·6	0·187	3·0	253	W & S
26	3	30·062	54·9	0·363	3·6	381	W & SW
27	2	30·176	52·2	..	..	236	W & SW
28	5	30·315	54·7	..	..	182	SE & S
29	1	30·309	58·0	0·035	2·4	319	SE & S
30	4	30·318	54·4	..	..	284	SE

DIARRHŒA IN DATES OF DEATH, 1881.

DATE. October	No. of Deaths.	Mean Reading of Barometer.	Mean Tempe- rature.	RAIN.		WIND.	
				Amount in Inches.	Hours.	Mean Daily Velocity in Miles.	DIRECTION.
1	1	30·306	50·9	..	..	286	SE & E
2	2	30·233	53·3	..	..	269	E
3	6	30·202	51·4	..	..	304	E & SE
4	3	30·226	47·7	..	..	355	E
5	3	30·293	48·1	..	..	200	NE & N
6	5	30·418	50·6	..	..	231	N & NE
7	2	30·463	52·4	0·290	7·4	159	SW & Var.
8	1	30·167	47·8	0·020	1·0	280	NE & E
9	5	29·829	49·2	0·027	1·8	562	W & Var.
10	2	29·876	54·5	0·044	1·3	704	SW & W
11	..	29·633	53·0	0·093	1·6	879	SW & W
12	2	29·685	48·4	0·310	3·9	957	W & SW
13	..	29·633	51·5	0·982	10·4	717	W & Var.
14	1	29·045	44·9	0·156	2·9	1252	W & SW
15	2	29·957	42·4	..	..	766	W & NW
16	..	30·341	40·9	..	..	105	NE & Var.
17	3	30·305	44·5	..	..	303	SE
18	2	30·194	45·8	..	..	509	SE & E
19	1	30·111	45·7	..	..	685	E
20	2	29·870	46·1	0·032	1·4	694	E & NE
21	1	29·668	46·1	0·318	5·0	568	E
22	2	29·382	47·3	0·698	8·7	936	E & NE
23	2	29·420	46·8	0·029	1·5	772	E
24	1	29·690	44·9	..	..	562	E
25	2	29·938	44·7	..	..	406	NE & E
26	2	30·193	41·4	..	..	270	NE
27	..	30·325	42·5	..	..	251	NE
28	..	30·235	40·4	..	..	223	N & Var.
29	1	30·276	37·2	..	..	329	NE
30	..	30·333	37·4	..	..	149	NE & NW
31	1	30·108	37·9	0·060	1·5	333	SE

WHOOPIING COUGH

Occasioned 402 deaths, or 144 in the Parish and 258 in the Out-Townships. (The average number of deaths for the preceding ten years was 469). Its percentage death-rate relatively to deaths from all causes was 3·6 in the first quarter of the year, 3·4 in the second, 2·3 in the third, and 1·6 in the fourth; its percentage rate relatively to deaths from all causes was 2·7, and relatively to deaths from Zymotic causes 14·3.

DEATHS FROM WHOOPING COUGH.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..		11	9	6	12	3	5	2	7	22	33	55
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Vauxhall	{ Below 5 years ..		2	4	2	2	1	..	..	..	5	6	11
	{ Above 5 years ..		..	3	..	..	..	..	..	..	..	3	3
St. Paul's	{ Below 5 years ..		2	3	2	..	..	..	..	..	4	3	7
	{ Above 5 years ..		1	..	..	..	..	..	..	..	1	..	1
Exchange	{ Below 5 years ..		3	..	1	..	1	1	..	..	5	1	6
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{ Below 5 years ..		2	1	1	1	2	3	1	2	6	7	13
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Lime Street	{ Below 5 years ..		1	..	2	1	2	..	..	..	5	1	6
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..		..	1	..	..	..	1	..	..	..	2	2
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years ..		1	1	..	..	..	..	..	1	1	2	3
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..		..	1	..	..	..	..	..	..	..	1	1
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Rodney Street	{ Below 5 years ..		2	1	..	1	..	..	1	1	3	3	6
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Abercromby	{ Below 5 years ..		2	..	..	3	..	..	1	..	3	3	6
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Parish Workhouse and Hospitals	{ Below 5 years ..		3	5	5	9	..	1	..	..	8	15	23
	{ Above 5 years ..		..	..	..	1	..	..	..	..	..	1	1
Out-Township Workhouse and Hospitals	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Everton	{ Below 5 years ..		8	18	8	10	5	10	1	6	22	44	66
	{ Above 5 years ..		..	..	..	2	..	..	1	..	1	2	3
Kirkdale	{ Below 5 years ..		5	6	1	8	2	2	2	2	10	18	28
	{ Above 5 years ..		..	..	..	1	1	..	..	..	1	1	2
West Derby	{ Below 5 years ..		9	14	5	7	8	13	4	9	26	43	69
	{ Above 5 years ..		..	..	..	1	..	..	..	..	..	1	1
North Toxteth	{ Below 5 years ..		4	6	6	7	3	5	7	2	20	20	40
	{ Above 5 years ..		1	..	..	..	..	..	..	1	1	1	2
South Toxteth	{ Below 5 years ..		6	6	2	7	5	6	7	4	20	23	43
	{ Above 5 years ..		..	2	..	1	..	..	1	..	1	3	4
Parish	{ Below 5 years ..		29	26	19	29	9	11	5	11	62	77	139
	{ Above 5 years ..		1	3	..	1	..	..	..	..	1	4	5
Out-Townships	{ Below 5 years ..		32	50	22	39	23	36	21	23	98	148	246
	{ Above 5 years ..		1	2	..	5	1	..	2	1	4	8	12
City	{ Below 5 years ..		61	76	41	68	32	47	26	34	160	225	385
	{ Above 5 years ..		2	5	..	6	1	..	2	1	5	12	17

DEATHS FROM CROUP.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..	1	3	3	3	3	4	6	2	13	12	25
	{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
Vauxhall	{ Below 5 years ..	2	..	..	1	1	3	..	..	3	4	7
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Paul's	{ Below 5 years ..	..	..	..	..	..	1	..	..	..	1	1
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Exchange	{ Below 5 years ..	..	..	..	..	1	..	1	..	2	..	2
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{ Below 5 years ..	..	..	1	..	..	..	..	1	1	1	2
	{ Above 5 years ..	..	1	..	..	..	..	..	..	..	1	1
Lime Street	{ Below 5 years ..	..	..	1	..	..	1	..	..	1	1	2
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years ..	1	..	..	1	..	..	..	..	1	1	2
	{ Above 5 years ..	..	..	..	..	..	1	..	..	..	1	1
Great George	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Rodney Street	{ Below 5 years ..	..	..	..	..	..	..	..	1	..	1	1
	{ Above 5 years ..	..	..	..	..	..	1	..	..	..	1	1
Abercromby	{ Below 5 years ..	..	..	..	..	..	..	1	..	1	..	1
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Parish Workhouse and Hospitals	{ Below 5 years ..	..	1	1	2	..	..	..	1	1	4	5
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Out-Township Workhouse and Hospitals	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Everton	{ Below 5 years ..	3	5	3	1	2	6	3	3	11	15	26
	{ Above 5 years ..	..	..	..	..	..	1	..	..	..	1	1
Kirkdale	{ Below 5 years ..	4	2	1	1	2	1	5	3	12	7	19
	{ Above 5 years ..	..	..	..	1	..	..	..	1	..	2	2
West Derby	{ Below 5 years ..	3	2	..	3	2	2	3	..	8	7	15
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
North Toxteth	{ Below 5 years ..	4	..	1	1	1	2	1	1	7	4	11
	{ Above 5 years ..	..	2	..	..	1	..	1	..	2	2	4
South Toxteth	{ Below 5 years ..	3	..	1	1	2	1	1	3	7	5	12
	{ Above 5 years ..	..	..	..	1	..	..	..	..	..	1	1
Parish	{ Below 5 years ..	4	4	6	7	5	9	8	5	23	25	48
	{ Above 5 years ..	..	1	..	..	..	2	1	..	1	3	4
Out-Townships	{ Below 5 years ..	17	9	6	7	9	12	13	10	45	38	83
	{ Above 5 years ..	..	2	..	2	1	1	1	1	2	6	8
City	{ Below 5 years ..	21	13	12	14	14	21	21	15	68	63	131
	{ Above 5 years ..	..	3	..	2	1	3	2	1	3	9	12

DEATHS FROM DIPHTHERIA.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..		..	1	..	1	..	..	..	3	..	5	5
	{ Above 5 years ..		..	1	..	..	..	..	..	..	..	1	1
Vauxhall	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Paul's	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Exchange	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Lime Street	{ Below 5 years ..		..	..	..	..	..	..	1	..	1	1	1
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years ..		1	..	..	..	..	..	..	1	..	1	1
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Great George	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	1	..	..	..	..	1	1	1	1
Rodney Street ...	{ Below 5 years ..		..	..	..	..	..	2	..	2	..	2	2
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Abercromby	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Parish Workhouse and Hospitals	{ Below 5 years ..		..	..	1	..	1	1	2	1	4	5	5
	{ Above 5 years ..		..	..	..	..	..	..	..	..	..	..	..
Out-Township Workhouse and Hospitals.	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		1	..	..	..	..	..	..	1	..	1	1
Everton	{ Below 5 years ..		4	..	..	..	1	1	3	5	4	9	9
	{ Above 5 years ..		..	1	..	1	..	1	..	2	1	3	3
Kirkdale	{ Below 5 years ..		..	..	..	..	1	1	2	1	3	4	4
	{ Above 5 years ..		..	1	1	1	..	..	2	1	4	5	5
West Derby	{ Below 5 years ..		2	..	2	..	..	..	..	4	..	4	4
	{ Above 5 years ..		..	1	..	..	..	1	..	1	1	2	2
North Toxteth	{ Below 5 years ..		..	1	1	..	..	..	..	1	1	2	2
	{ Above 5 years ..		..	..	1	1	1	..	..	2	1	3	3
South Toxteth	{ Below 5 years ..		..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..		..	..	..	..	1	..	..	..	1	1	1
Parish	{ Below 5 years ..		1	1	..	2	..	1	3	6	4	10	14
	{ Above 5 years ..		..	1	..	1	..	..	..	..	2	2	2
Out-Townships	{ Below 5 years ..		6	1	3	..	..	2	2	5	11	8	19
	{ Above 5 years ..		1	3	2	2	2	1	2	2	7	8	15
City	{ Below 5 years ..		7	2	3	2	..	3	5	11	15	18	33
	{ Above 5 years ..		1	4	2	3	2	1	2	2	7	10	17

DEATHS FROM SMALL POX.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
Vauxhall	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
St. Paul's.....	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
Exchange.....	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
St. Anne's	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
Lime Street.....	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
Castle Street	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
Great George	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
Rodney Street.....	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
Abercromby	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
Parish Workhouse and Hospitals	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
Out-Township Workhouse and Hospitals.	{	Below 5 years ..	..	..	1	1	1	..	2	1	3	3
	{	Above 5 years ..	1	..	9	2	5	2	2	17	4	21	
Everton	{	Below 5 years ..	..	..	1	1	..	1	..	1	2	3
	{	Above 5 years ..	..	..	3	..	..	1	..	3	1	4
Kirkdale	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
West Derby.....	{	Below 5 years ..	..	..	..	1	..	..	..	..	1	1
	{	Above 5 years ..	..	..	..	..	1	..	..	..	1	1
North Toxteth	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
South Toxteth	{	Below 5 years ..	..	..	..	1	..	..	..	..	1	1
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
Parish	{	Below 5 years ..	..	..	..	..	..	..	..	..	..	..
	{	Above 5 years ..	..	..	..	..	..	..	..	..	..	..
Out-Townships	{	Below 5 years ..	..	..	1	3	1	2	1	3	5	8
	{	Above 5 years ..	1	..	12	2	5	4	2	20	6	26	
City	{	Below 5 years ..	..	..	1	3	1	2	1	3	5	8
	{	Above 5 years ..	1	..	12	2	5	4	2	20	6	26	

OTHER ZYMOTICS.

Under the term of other Zymotics are included :—Chicken Pox, Cholera, Dysentery, Infantile Remittent Fever, Erysipelas, Syphilis, Thrush, Puerperal Fever, Rheumatic Fever, Quinsy, Ague, and Purpura.

WARDS.			QUARTERS.								YEAR.		
			March.		June.		Sept.		Dec.				
			M	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..	..	3	..	3	1	2	2	2	3	10	13
	{ Above 5 years ..	2	1	..	2	..	..	4	2	6	5	11
Vauxhall	{ Below 5 years ..	..	1	..	..	1	..	1	..	2	1	3
	{ Above 5 years ..	..	..	..	..	..	..	..	1	..	1	1
St. Paul's	{ Below 5 years ..	..	..	..	..	..	..	1	..	1	..	1
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Exchange	{ Below 5 years ..	..	..	..	..	..	..	..	1	..	1	1
	{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
St. Anne's	{ Below 5 years ..	3	1	..	..	2	1	1	..	6	2	8
	{ Above 5 years ..	..	..	..	1	..	..	..	..	..	1	1
Lime Street	{ Below 5 years ..	..	..	..	..	1	..	2	..	3	..	3
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..	..	..	..	..	..	..	..	1	..	1	1
	{ Above 5 years ..	..	1	..	..	..	..	1	..	1	1	2
Pitt Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	3	..	3	..	3
Great George	{ Below 5 years ..	..	..	..	1	2	..	..	..	2	1	3
	{ Above 5 years ..	..	..	..	..	1	..	..	..	..	1	1
Rodney Street	{ Below 5 years ..	..	1	..	1	..	..	..	..	..	2	2
	{ Above 5 years ..	..	..	..	..	..	..	..	2	..	2	2
Abercromby	{ Below 5 years ..	..	..	..	1	..	..	..	..	..	1	1
	{ Above 5 years ..	..	..	1	1	1	1	..	..	2	2	4
Parish Workhouse and Hospitals	{ Below 5 years ..	..	..	..	..	1	2	1	1	2	3	5
	{ Above 5 years ..	1	2	3	1	3	4	4	5	11	12	23	
Out-Township Workhouse and Hospitals.	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	2	2	3	..	1	1	1	1	7	4	11	
Everton	{ Below 5 years ..	7	1	1	..	2	..	..	2	10	3	13
	{ Above 5 years ..	3	2	..	5	4	1	1	..	8	8	16	
Kirkdale	{ Below 5 years ..	..	..	2	..	1	..	4	..	7	..	7
	{ Above 5 years ..	..	..	2	2	..	1	..	3	2	6	8
West Derby	{ Below 5 years ..	2	1	1	..	..	..	1	..	4	1	5
	{ Above 5 years ..	..	..	..	6	1	..	2	1	3	7	10
North Toxteth	{ Below 5 years ..	..	2	..	2	3	..	3	..	6	4	10
	{ Above 5 years ..	2	2	1	..	1	..	..	..	4	2	6
South Toxteth	{ Below 5 years ..	1	3	3	1	1	2	1	1	6	7	13	
	{ Above 5 years ..	..	1	1	..	..	2	3	..	4	3	7
Parish	{ Below 5 years ..	3	6	..	6	8	5	8	5	19	22	41	
	{ Above 5 years ..	3	4	4	5	4	6	13	10	24	25	49	
Out-Townships	{ Below 5 years ..	10	7	7	3	7	2	9	3	33	15	48	
	{ Above 5 years ..	7	7	7	13	7	5	7	5	28	30	58	
City	{ Below 5 years ..	13	13	7	9	15	7	17	8	52	37	89	
	{ Above 5 years ..	10	11	11	18	11	11	20	15	52	55	107	

TUBERCULAR DISEASES.

This group of diseases includes Phthisis, Scrofula, Tabes Mesenterica, and Hydrocephalus. They occasioned 1,880 deaths in the City of Liverpool during the year 1881, of which 820 occurred in the Parish, and 1,060 in the Out-Townships. (The average number of deaths for the preceding ten years was 1,987). The death-rate was 3·4 per 1,000 of the estimated population; their percentage death-rate relatively to deaths from all causes was 12·8.

PHTHISIS.

The deaths from Phthisis amounted to 1,291, and show a gradual decrease, the average number for the preceding ten years being 1,506.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..	1	..	..	..	1	..	1	1	3	1	4
	{ Above 5 years ..	14	20	13	14	11	11	18	13	56	58	114
Vauxhall	{ Below 5 years ..	..	1	..	..	..	1	..	..	..	2	2
	{ Above 5 years ..	3	2	3	3	7	4	4	2	17	11	28
St. Paul's	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	5	6	2	3	3	2	3	2	13	13	26
Exchange	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	4	2	3	3	4	..	6	3	17	8	25
St. Anne's	{ Below 5 years ..	..	..	1	..	..	1	..	..	1	1	2
	{ Above 5 years ..	8	12	10	4	9	12	5	6	32	34	66
Lime Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	2	3	4	4	2	3	1	3	9	13	22
Castle Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
St. Peter's	{ Below 5 years ..	..	..	..	..	..	..	..	1	..	1	1
	{ Above 5 years ..	1	2	..	1	1	1	2	..	4	4	8
Pitt Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	2	2	2	5	3	2	2	2	9	11	20
Great George	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	3	3	..	2	2	4	1	3	6	12	18
Rodney Street	{ Below 5 years ..	..	..	1	..	..	1	..	..	1	1	2
	{ Above 5 years ..	1	4	5	3	5	..	2	1	13	8	21
Abercromby	{ Below 5 years ..	..	..	..	..	1	..	..	..	1	..	1
	{ Above 5 years ..	5	5	2	3	..	4	5	2	12	14	26
Parish Workhouse and Hospitals	{ Below 5 years ..	..	..	1	..	..	1	..	..	1	1	2
	{ Above 5 years ..	50	15	55	20	29	20	35	20	169	75	244
Out-Township Workhouse and Hospitals ..	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	9	4	15	5	8	4	8	1	40	14	54
Everton	{ Below 5 years ..	..	3	..	..	2	..	3	1	5	4	9
	{ Above 5 years ..	29	33	26	24	15	24	25	15	95	96	191
Kirkdale	{ Below 5 years ..	..	..	1	..	..	1	..	..	1	1	2
	{ Above 5 years ..	10	11	11	10	11	13	9	9	41	43	84
West Derby	{ Below 5 years ..	..	1	1	..	1	2	1	1	3	4	7
	{ Above 5 years ..	25	13	16	22	13	12	16	15	70	62	132
North Toxteth	{ Below 5 years ..	2	2	2	2	1	2	1	1	6	7	13
	{ Above 5 years ..	14	18	10	13	7	10	11	14	42	55	97
South Toxteth	{ Below 5 years ..	2	..	2	2	1	4	1	1	6	7	13
	{ Above 5 years ..	4	13	6	13	8	4	3	5	21	35	56
Parish	{ Below 5 years ..	1	1	3	..	2	4	1	2	7	7	14
	{ Above 5 years ..	98	76	99	65	76	63	85	57	358	261	619
Out-Townships	{ Below 5 years ..	4	6	6	4	5	9	6	4	21	23	44
	{ Above 5 years ..	91	92	84	87	62	67	72	59	309	305	614
City	{ Below 5 years ..	5	7	9	4	7	13	7	6	28	30	58
	{ Above 5 years ..	189	168	183	152	138	130	157	116	667	566	1233

DEATHS FROM THE OTHER TUBERCULAR DISEASES.

WARDS.		QUARTERS.								YEAR.		
		March.		June.		Sept.		Dec.				
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Total.
Scotland	{ Below 5 years ..	4	7	8	6	9	7	9	9	30	29	59
	{ Above 5 years ..	1	..	2	1	1	1	..	2	4	4	8
Vauxhall	{ Below 5 years ..	..	..	..	2	1	2	2	..	3	4	7
	{ Above 5 years ..	..	..	..	..	..	..	..	1	..	1	1
St. Paul's	{ Below 5 years ..	..	..	..	2	1	1	5	..	6	3	9
	{ Above 5 years ..	..	..	..	..	..	..	1	..	1	..	1
Exchange	{ Below 5 years ..	..	..	1	1	1	..	2	1	4	2	6
	{ Above 5 years ..	..	..	..	..	..	1	..	..	..	1	1
St. Anne's	{ Below 5 years ..	2	1	4	5	4	..	1	4	11	10	21
	{ Above 5 years ..	1	..	..	2	1	..	..	..	2	2	4
Lime Street	{ Below 5 years ..	..	1	4	1	2	..	..	1	6	3	9
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Castle Street	{ Below 5 years ..	..	..	..	..	..	..	..	..	..	..	..
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
St. Peter's	{ Below 5 years ..	..	2	1	1	..	..	..	1	1	4	5
	{ Above 5 years ..	..	..	..	..	..	..	..	..	..	..	..
Pitt Street	{ Below 5 years ..	..	..	..	..	1	1	..	..	1	1	2
	{ Above 5 years ..	1	..	..	..	..	..	..	1	1	1	2
Great George	{ Below 5 years ..	..	..	..	..	2	..	..	..	2	..	2
	{ Above 5 years ..	..	..	..	..	..	..	..	1	..	1	1
Rodney Street.....	{ Below 5 years ..	1	..	..	1	..	3	..	1	1	5	6
	{ Above 5 years ..	..	..	..	..	..	..	..	1	..	1	1
Abercromby.....	{ Below 5 years ..	1	2	..	..	1	3	1	..	3	5	8
	{ Above 5 years ..	..	2	1	3	1	..	..	..	2	5	7
Parish Workhouse and Hospitals	{ Below 5 years ..	1	5	1	2	2	..	..	1	4	8	12
	{ Above 5 years ..	3	1	4	3	3	1	..	..	10	5	15
Out-Township Workhouse and Hospitals.	{ Below 5 years ..	..	1	..	..	..	..	1	1	1	2	3
	{ Above 5 years ..	1	..	..	..	1	1	1	..	3	1	4
Everton.....	{ Below 5 years ..	20	9	11	15	18	14	24	6	73	44	117
	{ Above 5 years ..	1	1	4	3	2	..	1	3	8	7	15
Kirkdale	{ Below 5 years ..	5	4	8	6	6	7	12	4	31	21	52
	{ Above 5 years ..	3	1	2	2	2	..	..	1	7	4	11
West Derby	{ Below 5 years ..	13	8	6	7	11	13	14	5	44	33	77
	{ Above 5 years ..	..	1	1	3	1	..	..	..	2	4	6
North Toxteth.....	{ Below 5 years ..	5	9	5	7	9	8	4	5	23	29	52
	{ Above 5 years ..	1	..	..	1	..	1	..	1	1	3	4
South Toxteth.....	{ Below 5 years ..	7	5	8	2	8	8	9	7	32	22	54
	{ Above 5 years ..	1	3	1	..	..	1	..	1	2	5	7
Parish	{ Below 5 years ..	9	18	19	21	24	17	20	18	72	74	146
	{ Above 5 years ..	6	3	7	9	6	3	1	6	20	21	41
Out-Townships	{ Below 5 years ..	50	36	38	37	52	50	64	28	204	151	355
	{ Above 5 years ..	7	6	8	9	6	3	2	6	23	24	47
City	{ Below 5 years ..	59	54	57	58	76	67	84	46	276	225	501
	{ Above 5 years ..	13	9	15	18	12	6	3	12	43	45	88

Mr. Hartnup has kindly supplied the following Meteorological Table :—
LIVERPOOL OBSERVATORY.

DATE—1881.	Mean Barometer.	Mean Temperature.	Rainfall on Ground.
	Inches.	o	Inches.
January	29·910	30·5	1·093
February	29·793	38·1	3·287
March	29·840	41·7	2·859
April	29·977	45·4	1·543
May ..	30·062	53·0	2·717
June	29·931	56·4	2·352
July	29·947	60·5	2·602
August	29·778	57·1	4·336
September	29·980	55·1	1·613
October.....	30·011	46·3	3·059
November	29·785	48·6	2·467
December.....	29·897	40·0	2·740

Mr. Haggar, the Vestry Clerk, has kindly supplied the following Tables:—

PARISH OF LIVERPOOL.

Return of Infectious Diseases, &c., in Workhouse Hospital.

1881. WEEK ENDING		TYPHUS.				SIMPLE CONTINUED.					MEASLES.					
		No. at commence- ment of week.	Admitted.	Discharged.	Died.	Remaining at end of week.	No. at commence- ment of week.	Admitted.	Discharged.	Died.	Remaining at end of week.	No. at commence- ment of week.	Admitted.	Discharged.	Died.	Remaining at end of week.
Jan.	1....	36	6	8	2	32	13	5	6	..	12	..	..	..	..	..
"	8....	32	6	7	4	27	12	..	5	1	6	..	..	..	..	..
"	15....	27	4	10	..	21	6	2	5	..	3	..	..	..	..	..
"	22....	21	10	5	..	26	3	3	2	..	4	..	..	..	..	..
"	29....	26	7	2	..	31	4	..	2	..	2	..	..	..	..	..
Feb.	5....	31	3	9	2	23	2	3	..	..	5	..	..	..	..	..
"	12....	23	6	5	1	23	5	2	4	..	3	..	..	..	..	..
"	19....	23	6	9	2	18	3	2	..	..	5	..	..	..	..	..
"	26....	18	1	..	1	18	5	4	..	..	9	..	..	..	..	..
March	5....	18	5	6	..	17	9	5	3	1	10	..	..	..	..	..
"	12....	17	..	2	1	14	10	2	3	..	9	..	..	..	..	..
"	19....	14	2	6	..	10	9	6	3	..	12	..	..	..	..	..
"	26....	10	5	..	..	15	12	6	7	..	11	..	..	..	..	..
April	2....	15	4	4	1	14	11	8	4	..	15	..	..	..	..	..
"	9....	14	9	..	2	21	15	2	4	..	13	..	..	..	..	..
"	16....	21	10	1	3	27	13	15	12	..	16	..	14	..	..	14
"	23....	27	9	7	1	28	16	7	11	..	12	14	..	..	..	14
"	30....	28	9	..	3	34	12	9	15	2	4	14	1	3	..	12
May	7....	34	17	10	4	37	4	6	1	..	9	12	..	12	..	..
"	14....	37	6	5	3	35	9	11	9	1	10	..	2	..	..	2
"	21....	35	8	10	4	29	10	7	12	..	5	2	4	2	..	4
"	28....	29	10	10	..	29	5	4	2	3	4	4	1	..	..	5
June	4....	29	6	4	1	30	4	2	2	1	3	5	1	1	..	5
"	11....	30	7	10	1	26	3	6	2	..	7	5	1	3	1	2
"	18....	26	10	12	1	23	7	13	4	1	15	2	4	2	..	4
"	25....	23	7	11	1	18	15	5	8	..	12	4	1	2	..	3
July	2*..	18	9	4	1	22	12	6	6	1	11	3	..	2	..	1
"	9....	22	3	..	2	23	11	15	6	3	17	1	4	..	..	5
"	16....	23	10	9	2	22	17	5	9	..	13	5	1	1	..	5
"	23....	22	2	9	..	15	13	14	12	..	15	5	10	4	..	11
"	30....	15	3	8	..	10	15	4	4	..	15	11	..	3	1	7
Aug.	6....	10	5	2	1	12	15	6	12	..	9	7	10	3	1	13
"	13....	12	5	4	1	12	9	4	8	1	4	13	1	3	..	11
"	20....	12	14	4	3	19	4	9	5	2	6	11	8	6	..	13
"	27....	19	12	3	2	26	6	11	1	..	16	13	2	3	2	10
Sept.	3....	26	4	9	1	20	16	5	8	..	13	10	6	..	2	14
"	10....	20	13	2	1	30	13	6	7	1	11	14	6	3	1	16
"	17....	30	10	14	..	26	11	9	2	..	18	16	11	7	..	20
"	24....	26	7	4	4	25	18	12	5	..	25	20	3	5	1	17
Oct.	1....	25	8	4	..	29	25	9	10	1	23	17	16	1	..	32
"	8....	29	15	6	..	38	23	5	11	1	16	32	2	4	..	30
"	15....	38	13	5	3	43	16	14	17	1	12	30	4	2	..	32
"	22....	43	4	20	2	25	12	9	5	1	15	32	9	13	2	26
"	29....	25	12	5	1	31	15	20	9	..	26	26	13	5	4	30
Nov.	5....	31	11	11	3	28	26	17	16	1	26	30	16	2	1	43
"	12....	28	13	6	2	33	26	11	9	1	27	43	11	5	6	43
"	19....	33	12	4	3	38	27	19	12	..	34	43	15	13	4	41
"	26....	38	5	4	3	36	34	9	17	..	26	41	12	12	6	35
Dec.	3....	36	14	7	..	43	26	21	15	3	29	35	7	6	4	32
"	10....	43	12	13	3	39	29	2	18	1	12	32	1	10	3	20
"	17....	39	9	10	3	35	12	11	18	..	5	20	8	12	1	15
"	24....	35	3	11	1	26	5	9	7	..	7	15	3	6	3	9
"	31....	26	12	12	1	25	7	5	5	..	7	9	3	3	..	9

* The fever cases belonging to the West Derby Union were treated in the fever wards of the Liverpool Workhouse from this week throughout the year, and the small-pox cases belonging to the Parish of Liverpool were treated in the West Derby Union Hospital, Mill Road, during the same period.

PARISH OF LIVERPOOL.

Return of Infectious Diseases, &c., in Workhouse Hospital.

1881. WEEK ENDING		SCARLATINA.				SMALL POX.				TYPHOID.						
		No. at commence- ment of week.	Admitted.	Discharged.	Died.	Remaining at end of week.	No. at commence- ment of week.	Admitted.	Discharged.	Died.	Remaining at end of week.	No. at commence- ment of week.	Admitted.	Discharged.	Died.	Remaining at end of week.
Jan.	1.....	16	..	3	..	13	..	..	..	..	..	2	3	4	..	1
"	8.....	13	7	4	..	16	..	..	..	..	..	1	4	1	..	4
"	15.....	16	1	7	1	9	..	..	..	..	..	4	..	1	1	2
"	22.....	9	2	..	2	9	..	..	..	..	..	2	..	1	..	1
"	29.....	9	2	..	..	11	..	..	..	..	..	1	1	..	..	2
Feb.	5.....	11	1	1	..	11	..	..	..	..	..	2	2	1	..	3
"	12.....	11	..	3	1	7	..	..	..	..	..	3	1	1	1	2
"	19.....	7	3	2	..	8	..	..	..	..	..	2	1	..	..	3
"	26.....	8	2	1	2	7	..	..	..	..	..	3	2	..	..	5
March	5.....	7	..	..	..	7	..	..	..	..	..	5	..	..	..	5
"	12.....	7	1	1	..	7	..	1	1	..	..	5	3	..	..	8
"	19.....	7	3	1	..	9	..	..	..	..	..	8	2	1	2	7
"	26.....	9	..	..	..	9	..	..	..	..	..	7	..	..	..	7
April	2.....	9	10	3	1	15	..	..	..	..	..	7	2	..	..	9
"	9.....	15	3	..	..	18	..	..	..	..	..	9	..	1	..	8
"	16.....	18	..	..	1	17	..	..	..	..	..	8	2	1	1	8
"	23.....	17	..	3	1	13	..	..	..	..	..	8	..	2	..	6
"	30.....	13	..	1	..	12	..	..	..	..	..	6	1	1	..	6
May	7.....	12	1	2	..	11	..	..	..	..	..	6	1	..	..	7
"	14.....	11	6	5	..	12	..	..	..	..	..	7	2	1	..	8
"	21.....	12	2	2	..	12	..	..	..	..	..	8	2	1	1	8
"	28.....	12	..	2	1	9	..	..	..	..	..	8	2	..	..	10
June	4.....	9	..	..	..	9	..	..	..	..	..	10	..	2	1	7
"	11.....	9	1	2	..	8	..	..	..	..	..	7	..	..	..	7
"	18.....	8	..	..	1	7	..	..	..	..	..	7	..	1	..	6
"	25.....	7	2	2	1	6	..	..	..	..	..	6	1	..	1	6
July	2.....	6	4	4	..	6	..	..	..	..	..	6	1	1	..	6
"	9.....	6	6	1	1	10	..	..	..	..	..	6	1	2	..	5
"	16.....	10	3	..	1	12	..	..	..	..	..	5	..	..	..	5
"	23.....	12	1	1	5	7	..	..	..	..	..	5	..	..	..	5
"	30.....	7	9	1	..	15	..	..	..	..	..	5	..	..	..	5
Aug.	6.....	15	2	3	..	14	..	..	..	..	..	5	..	..	..	5
"	13.....	14	4	1	..	17	..	..	..	..	..	5	..	..	..	5
"	20.....	17	2	2	1	16	..	..	..	..	..	5	..	..	..	5
"	27.....	16	4	4	..	16	..	..	..	..	..	5	..	..	..	5
Sept.	3.....	16	8	3	1	20	..	..	..	..	..	5	..	1	..	4
"	10.....	20	2	1	2	19	..	..	..	..	..	4	..	1	..	3
"	17.....	19	2	7	..	14	..	..	..	..	..	3	2	..	..	5
"	24.....	14	3	5	..	12	..	..	..	..	..	5	..	..	..	5
Oct.	1.....	12	4	..	1	15	..	..	..	..	..	5	1	..	..	6
"	8.....	15	7	1	..	21	..	..	..	..	..	6	..	..	..	6
"	15.....	21	6	4	1	22	..	..	..	..	..	6	1	..	..	7
"	22.....	22	8	10	..	20	..	..	..	..	..	7	..	1	3	3
"	29.....	20	3	2	..	21	..	..	..	..	..	3	2	1	..	4
Nov.	5.....	21	7	2	..	26	..	..	..	..	..	4	2	..	..	6
"	12.....	26	6	8	1	23	..	..	..	..	..	6	3	..	..	9
"	19.....	23	7	7	1	22	..	..	..	..	..	9	1	1	..	9
"	26.....	22	2	1	2	21	..	..	..	..	..	9	3	1	..	11
Dec.	3.....	21	10	5	..	26	..	..	..	..	..	11	..	2	1	8
"	10.....	26	5	8	2	21	..	..	..	..	..	8	..	2	..	6
"	17.....	21	8	3	1	25	..	..	..	..	..	6	..	1	..	5
"	24.....	25	1	9	..	17	..	..	..	..	..	5	3	..	..	8
"	31.....	17	4	..	2	19	..	..	..	..	..	8	..	2	..	6

These show that the average number of persons suffering from Continued Fever (including therein Typhus, Typhoid, and simple Continued Fever) at one time in Hospital during the year 1881 was 44, and their percentage Death-rate was 13·2. The average number of cases of Measles at one time in Hospital during the year was 11, and the percentage Death-rate was 20·4; the average number of cases of Scarlatina at one time in the Hospital during the year was 14, and the percentage Death-rate was 17·8.

PARISH OF LIVERPOOL.

RETURN OF PERSONS IN RECEIPT OF RELIEF IN THE YEAR 1881.

Week ending.	Work-house.	Industrial Schools.	Out-Relief.	Week ending.	Work-house.	Industrial Schools.	Out-Relief.
1881.				1881.			
January 1..	3210	1003	2711	July 2..	2741	905	2746
„ 8..	3252	995	2700	„ 9..	2702	941	2713
„ 15..	3392	986	2749	„ 16..	2688	923	2696
„ 22..	3514	1026	2868	„ 23..	2659	950	2678
„ 29..	3527	1013	3085	„ 30..	2708	923	2687
February 5..	3464	1029	2986	August 6..	2683	920	2643
„ 12..	3467	1007	2947	„ 13..	2729	908	2617
„ 19..	3401	1020	2887	„ 20..	2735	933	2598
„ 26..	3410	1005	2829	„ 27..	2751	912	2618
March 5..	3391	1012	2847	September 3..	2755	928	2697
„ 12..	3362	991	2825	„ 10..	2791	905	2666
„ 19..	3259	999	2762	„ 17..	2834	936	2666
„ 26..	3292	980	2750	„ 24..	2838	919	2679
April 2..	3241	985	2704	October 1..	2831	925	2596
„ 9..	3117	954	2659	„ 8..	2884	908	2527
„ 16..	3079	958	2656	„ 15..	2912	941	2521
„ 23..	3053	952	2604	„ 22..	2953	932	2511
„ 30..	2960	960	2596	„ 29..	2953	964	2519
May 7..	2945	965	2600	November 5..	2951	945	2522
„ 14..	2947	942	2566	„ 12..	2962	955	2507
„ 21..	2943	930	2594	„ 19..	3013	939	2525
„ 28..	2888	942	2640	„ 26..	3019	944	2558
June 4..	2813	917	2672	December 3..	3046	928	2577
„ 11..	2755	899	2619	„ 10..	3050	953	2575
„ 18..	2809	892	2656	„ 17..	3119	939	2575
„ 25..	2809	924	2693	„ 24..	3071	939	2585
				„ 31..	3130	922	2567

The number of persons in receipt of Parochial Relief on Saturday, 25th of June, 1881, was 6,426, or 350 more than at the corresponding period of 1880; and the number on Saturday, the 31st December, 1881, was 6,619, or 343 less than at the same period of 1880.

SANITARY WORK.

Privies Certified for Conversion into Water Closets during the year 1881.

WARDS.	No. of Privies Certified.
Scotland	315
St. Anne's	80
Lime Street.....	26
Castle Street	1
St. Peter's	8
Great George	20
Rodney Street	146
Abercromby	46
Everton	855
Kirkdale	186
West Derby	505
North Toxteth	222
South Toxteth	55
TOTAL.....	2465

The City Engineer has kindly supplied the following tables :—

Return showing the number of Houses Erected, and the number of Houses Taken Down in each of the Sixteen Wards during the year 1881 :—

No.	WARDS.	Houses taken down.	Per centage.	Houses Built.	Per centage.
1	Everton and Kirkdale	34	15·32	693	40·86
2	Scotland	32	14·44	....	....
3	Vauxhall	7	3·15	....	....
4	St. Paul's .....	....	....	....	....
5	Exchange .....	....	....	....	....
6	Castle Street	47	21·17	1	·06
7	St. Peter's	1	·45	2	·12
8	Pitt Street .....	....	....	....	....
9	Great George	57	25·22	....	....
10	Rodney Street .....	....	....	....	....
11	Abercromby.....	14	6·30	3	·18
12	Lime Street	3	1·35	1	·06
13	St. Anne's	9	4·05	6	·35
14	West Derby	19	8·55	267	15·74
15	North Toxteth.....	....	....	628	37·03
16	South Toxteth.....	....	....	95	5·60
	TOTAL.....	222	100	1696	100

SEWER VENTILATION.

Number of Iron Pipe Ventilating Shafts, fitted with Archimedian Extractors....	1,016
The length of Sewers Ventilated.....	174 Miles
Number of Street Ventilating Gratings fixed	3,904

LODGING-HOUSES.

The Health Committee have, since the passing of the Sanitary Act, 1866, ruled that, as far as possible, all registered lodging-houses should have a day apartment for the accommodation of their lodgers, and that all houses where single rooms were occupied by day and night should be registered as sub-let. The space required for a night lodger in a registered lodging-house is 300 cubical feet, while the space in a sub-let house for each adult is 350 feet.

There were on the register 1,088 lodging-houses at the end of 1880, and 1,104 at the end of 1881. This difference was occasioned by the removal of 282 old licenses, and the addition of 298 new ones. The visits to lodging-houses are both by day and night. The lodging-houses of the better class, and especially those provided only with single beds for each person, and only with the number of beds equivalent to the number of lodgers allowed, are not visited at night except on grave suspicion or on complaint, or in the case of foreign emigrant lodging-houses. The night visits are pretty nearly restricted to the low districts and tramp houses. The number of day visits paid during the year was 45,640, and the night visits 6,537. The number of lodging-houses found overcrowded on the night visits was 53, the number of informations laid for breaches of the bye-laws was 164, with the results of fines in 157 cases to the extent of £33 13s., in sums varying from 1s. to 20s. and costs. The number of lodging-houses found dirty was 249; notices were served to lime-wash and cleanse.

It is necessary frequently to visit houses which are not licensed either as lodging or sub-let houses, especially when emigration is brisk or at race times. There were 2,486 such visits paid during the day, and in 48 of the cases where suspicion was confirmed they were followed up by night visits. A tenant harbouring lodgers is not taken before the Justices for the first offence, but is noticed to apply to have his rooms measured and licensed. There were 233 such notices issued during the year, but in only 10 cases did the tenants refuse to comply; they were brought before the Justices and fined. A bye-law requires that every case of infectious sickness in a lodging-house should be at once reported to the Medical Officer of Health. 49 cases of fever and 3 cases of small-pox occurred in lodging-houses; in 47 of the cases the patients were at once sent to hospital, the remaining 5, being members of the keepers' families, were not removed; 4 of these latter died. In all cases of fever or infectious disease the bedding was at once removed to the disinfecting apparatus, and the rooms purified and cleansed; in the cases where the patients remained, the licenses to receive lodgers were suspended by the Medical Officer. No

lodger died from fever or small pox in a registered lodging-house ; but, not including the cases of fever, there were 148 deaths from non-contagious diseases in lodging-houses, of which 86 belonged to the keepers' families and 62 were lodgers.

SUB-LET HOUSES.

The number of sub-let Houses on the Register at the termination of 1880 was 14,188, the number registered during 1881 was 515, making the total on the Register on the 31st December, 14,703. The number of visits paid during the night was 11,982, and during the day 76,066, with the result of finding 1,415 rooms overcrowded. In addition to overcrowding, the offence (though not punishable in sub-let houses) of permitting males and females not married to occupy the same room comes under the notice, and is entered in the books of the Inspectors. There were 950 rooms thus indecently occupied by 1,427 males and 1,641 females, besides having also in these rooms 709 children between the ages of 5 and 13 years. The character of the indecent occupation may be judged of from the following facts :—In 458 instances one man and two women were found in the same bedroom ; in 310 instances two men and one woman ; in 71 instances two men and two women ; in 51 instances one man and three women ; in 31 instances three men and one woman ; in 11 instances two men and three women ; in six instances three men and two women ; in five instances one man and four women ; in three instances four men and two women ; in two instances two men and four women ; and in two instances one man and five women.

Informations were laid against 1,180 chief tenants for permitting overcrowding in rooms, with the following results :—5 were fined 1s ; 1,017 fined 1s. and 1s. costs ; 1 fined 2s. 6d. and 1s. costs ; 111 fined 2s. 6d. and 2s. 6d. costs ; 17 fined 5s. and 4s. 6d. costs ; making a total of fines levied during the year of £137 19s. Of the remaining 29 cases, 21 informations were withdrawn and 8 acquitted, the tenants having abated the overcrowding.

LICENSES FOR CATTLE.

During the year 1881, 11 applications were made to the Health Committee for licenses to keep cows ; 9 of the applications for keeping 57 cows were granted. There are at present 443 shippons licensed to keep 5,460 cows. 66 of the shippons previously licensed have been transferred to fresh tenants.

24 applications were made during the year to keep pigs in styres separate from, and unconnected with, shippons ; 7 of the applications for keeping 18 pigs were granted. 31 piggeries, licensed to keep 126 pigs, have been given

up during the year. 1 piggery previously licensed has been transferred to a fresh tenant. The total number of premises or styres now licensed in the City is 129, for keeping 353 pigs.

CONTAGIOUS DISEASES (ANIMALS) ACT, 1878.

This Act and the orders issued under it by the Privy Council were referred to the Medical Officer to carry out in conjunction with the Veterinary Surgeon, the Inspector of Nuisances, and the Meat Inspectors. During the year Pleuro-pneumonia was found in 5 shippens, affecting 14 cows, which were slaughtered by order of the owners or of the Corporation; and 33 cows, which were not diseased, but had been either in contact with the affected ones or in the same cowsheds, were slaughtered by order of the owners.

Foot and Mouth Disease was found in 1 shippen, and only one cow was affected.

Pig Typhoid was found in one styre, where 7 young pigs died out of a stock of 10.

DAIRIES, COWSHEDS, AND MILKSHOPS ORDER.

Number of applications for registration during the year	392
Of which transfers were	163
Number of applications granted.....	307
„ „ refused.....	85
Number on the register at the end of 1881	1445
„ „ „ 1880	1328
An increase of	<u>117</u>

CANAL BOATS ACT, 1877.

Canal Boats Registered up to 31st December, 1881,

318 BOATS.

120 Boats have both cabins registered; 8 are allowed 3 persons in the after-cabin and 2 in the fore cabin; 77 are allowed 3 in the after cabin and 3 in the fore cabin; 34 are allowed 4 in the after cabin and 2 in the fore cabin; and 1 is allowed 4 in the after cabin and 3 in the fore cabin. 86 of these boats are occasionally used as “fly” boats and when so used 1 is allowed 4 persons; 54 are allowed 5 persons each; and 31 are allowed 6 persons each.

18 Boats only used as “fly” boats are allowed 72.

180 Boats have only the after cabins registered; 4 are allowed 3 persons each; 173 allowed 4 persons each; and 3 allowed 5 persons each.

MORTUARIES.

During the year 51 bodies were, by order of the Justices on the certificate of the Medical Officer, removed to the Mortuaries provided by the Council under section 142 of the Public Health Act, 1875.

CASES OF INFECTIOUS DISEASE REPORTED DURING 1881.

Year—1881.	Small Pox.	Fever.	Scarlatina.	Measles.	Diphtheria	TOTAL.
January	1	86	96	28	5	216
February	1	60	56	21	5	143
March	8	80	71	19	5	183
April	3	131	43	38	5	220
May	34	120	48	90	5	297
June	108	83	56	147	3	397
July	56	77	74	308	6	521
August	20	86	103	219	6	434
September	12	130	155	274	4	575
October	5	111	200	361	13	690
November	7	121	224	422	6	780
December	7	122	172	299	7	607
TOTAL	262	1207	1298	2226	70	5063
Removed to Hospital	199	813	185	81	5	1283

Of the patients removed to Hospital the following were conveyed by the Sanitary Officers:—424 cases of Fever and Scarlatina, 130 cases of Small Pox, 8 cases of Measles, and 2 cases of Diphtheria, making a total of 564 persons. 150 were taken to Netherfield Road Hospital, 342 to the Parish Workhouse Hospital, 2 to Toxteth Workhouse Hospital, 68 to West Derby Union Hospital, and 2 to Children's Infirmary, Myrtle Street.

In accordance with the arrangement made with the School Board, 2656 post cards were sent to the Head Masters of the various schools, informing them that children from infected houses attended their schools. Similar information was sent to the School Board.

DISINFECTION OF HOUSES.

In all cases of infectious disease the houses were disinfected, free of cost, with sulphurous gas, by officers appointed by the Health Committee; but whenever there was sickness in any room of the house, so as to endanger health by the use of sulphurous gas, carbolic acid powder was freely sprinkled in the rooms and passages of the house until the sulphurous gas could be used safely. No house is considered properly disinfected until sulphurous gas has been used. The existence of sickness, and the consequent employment of carbolic acid powder, necessitate many visits by the persons in charge of disinfection. There were in all 5,484 visits paid during the year to houses for the purpose of disinfection, the number of houses properly disinfected being 2,040.

THE DISINFECTING APPARATUS.

The number of articles disinfected at the Apparatus during the year amounted to 28,991.

DATE. 1881.	Number of Beds.	Number of Mattresses.	Number of Pieces of Bedding.	Number of Pieces of Wearing Apparel, &c.	Total Number of Articles.
Week ending—					
January 8.....	43	53	303	210	609
„ 15.	33	66	246	152	497
„ 22.....	27	34	188	164	413
„ 29.....	38	46	239	191	514
February 5.....	22	34	188	216	460
„ 12.....	24	31	173	244	472
„ 19.....	33	40	223	233	529
„ 26.....	28	57	194	379	658
March 5.....	24	38	184	301	547
„ 12.....	30	53	234	203	520
„ 19.....	20	43	161	367	591
„ 26.....	25	44	141	61	271
April 2.....	31	42	202	248	523
„ 9.....	23	37	151	177	388
„ 16.....	23	37	184	100	344
„ 23.....	35	39	223	104	401
„ 30.....	38	52	260	236	586
May 7.....	24	27	193	139	383
„ 14.....	37	46	212	203	498
„ 21.....	27	44	204	199	474
„ 28.....	40	38	229	104	411
June 4.....	49	66	313	271	699
„ 11.....	39	52	250	131	472
„ 18.....	45	54	266	204	569
„ 25.....	54	90	376	264	784
July 2.....	53	64	330	272	719
„ 9.....	51	81	577	189	898
„ 16.....	45	68	449	279	841
„ 23.....	43	38	377	147	605
„ 30.....	31	61	203	121	416
August 6.....	27	45	359	498	929
„ 13.....	37	58	264	361	720
„ 20.....	48	56	256	189	549
„ 27.....	43	64	294	194	595
September 3.....	28	25	162	94	309
„ 10.....	25	20	132	100	277
„ 17.....	39	34	246	176	495
„ 24.....	50	43	278	173	544
October 1.....	52	71	383	113	619
„ 8.....	49	40	262	170	521
„ 15.....	34	25	203	217	479
„ 22.....	40	55	265	110	470
„ 29.....	54	55	347	267	723
November 5.....	46	80	375	237	738
„ 12.....	51	93	350	349	843
„ 19.....	54	64	348	122	588
„ 26.....	46	53	259	163	521
December 3.....	47	77	263	304	691
„ 10.....	46	83	439	420	988
„ 17.....	25	33	207	123	388
„ 24.....	44	65	273	112	494
„ 31.....	29	56	234	99	418
Totals	1,949	2,670	13,672	10,700	28,991

The number of articles destroyed at the Apparatus during the year amounted to 746.

DATE. 1881.	Number of Beds.	Number of Mattresses.	Number of Pieces of Bedding.	Number of Pieces of Wearing Apparel, &c.	Total Number of Articles.
Week ending—					
January 8.....	2	2	4	..	8
" 15.....	..	4	..	..	4
" 22.....	4	3	4	..	11
" 29.....	..	2	..	..	2
February 5.....	3	4	5	..	12
" 12.....	1	1	1	..	3
" 19.....	..	2	1	..	3
" 26.....	4	2	4	..	10
March 5.....	..	2	..	..	2
" 12.....	2	4	7	..	13
" 19.....	3	9	8	12	32
" 26.....	2	6	3	..	11
April 2.....	3	2	2	9	16
" 9.....	4	4	12	..	20
" 16.....	3	3	5	..	11
" 23.....	..	5	..	..	5
" 30.....	3	8	8	1	20
May 7.....	1	3	5	58	67
" 14.....	1	5	9	6	21
" 21.....	5	3	8	7	23
" 28.....	3	..	..	..	3
June 4.....	2	13	..	11	26
" 11.....	4	4	4	4	16
" 18.....	3	3	4	..	10
" 25.....	1	4	8	5	18
July 2.....	6	4	7	40	57
" 9.....	..	6	..	..	6
" 16.....	2	10	2	..	14
" 23.....	..	11	..	..	11
" 30.....	5	32	2	..	39
August 6.....	..	4	..	..	4
" 13.....	1	2	..	..	3
" 20.....	3	4	..	..	7
" 27.....	1	6	7	16	30
September 3.....	1	6	..	..	7
" 10.....	2	6	..	..	8
" 17.....	2	2	4	7	15
" 24.....	3	4	..	..	7
October 1.....	1	6	3	..	10
" 8.....	..	4	..	..	4
" 15.....	1	2	..	..	3
" 22.....	8	8	8	7	31
" 29.....	2	4	..	20	26
November 5.....	..	..	..	..	..
" 12.....	2	4	1	..	7
" 19.....	1	5	..	..	6
" 26.....	..	6	..	..	6
December 3.....	3	5	1	5	14
" 10.....	7	6	11	13	37
" 17.....	1	2	5	6	14
" 24.....	2	4	3	..	9
" 31.....	1	3	..	..	4
Totals	109	254	156	227	746

INSPECTOR OF NUISANCES' REPORT FOR THE YEAR 1881.
SLAUGHTER-HOUSE RETURNS OF CATTLE KILLED IN
THE CITY, 1881.

STREET.		Beasts.	Sheep.	Lambs.	Calves.	Pigs.	Dead Meat imported for Sale at the Abattoir.			
							Beasts.	Sheep.	Pigs.	Calves.
Abattoir.....		29129	179178	..	12056	8600	8485	49443	40	1603
Foreign Animals' Wharf— Huskisson Dock		4937	1876	..	..	..	..	..	..	..
Canada Dock.....										
NEW PARTS.	Arch No. 30	26	5	..	..	508	..	..	..	..
	„ No. 42 .....	..	..	..	..	4	..	..	..	..
	Byles Street	95	1999	279	..	..	..	..	..	..
	Browside	424	822	69	..	..	..	..	..	..
	Back Empire Street	350	1261	..	11	..	..	..	..	..
	Back Castle Street	422	382	30	..	..	..	..	..	..
	Cotter Street.....	51	33	2	..	1658	..	..	..	..
	Corlett Street	367	2150	532	33	7	..	..	..	..
	Crown Street.	429	1903	385	1	5	..	..	..	..
	Darnley Street .....	..	..	..	..	1595	..	..	..	..
	Embledon Street	791	2152	587	36	19	..	..	..	..
	Foley Street	843	1377	69	56	10	..	..	..	..
	Gelling Street	513	378	326	139	..	..	..	..	..
	Mount Vernon	753	5557	1186	65	..	..	..	..	..
	Parliament Street.....	345	1531	298	178	4	..	..	..	..
	Peel Street.....	64	363	91	7	1	..	..	..	..
Wavertree Road	85	587	..	8	..	..	..	..	..
OLD PARTS.	Bevington Hill	1537	538	..	489	10	..	..	..	..
	Benledi Street	149	314	9	56	438	..	..	..	..
	Byrom Street.....	..	..	..	..	377	..	..	..	..
	Bolton Street.....	679	3295	..	28	..	..	..	..	..
	Back Commutation Row (1)	513	2941	..	33	..	..	..	..	..
	„ „ (2)	474	2477	192	3	..	..	..	..	..
	Cross Street .....	..	..	..	..	10150	..	..	..	..
	Finch Place	619	3748	14	18	..	..	..	..	..
	Frederick Street	625	2863	169	17	216	..	..	..	..
	Hodson Street	413	4032	368	16	..	..	..	..	..
	Leeds Street	640	788	25	2	1616	..	..	..	..
	Lydia Ann Street.....	94	30	26	..	1	..	..	..	..
	Norman Street .....	..	..	..	..	2393	..	..	..	..
	Norfolk Street	357	1601	457	..	6	..	..	..	..
	Plumbe Street .....	..	..	..	..	817	..	..	..	..
	Price Street	134	1314	..	..	1	..	..	..	..
	St. James Street	126	1708	..	..	1	..	..	..	..
	Scotland Road	37	339	4	196	..	..	..	..	..
	Soho Street .....	..	..	..	..	1757	..	..	..	..
	Upper Milk Street	1302	506	..	..	12415	..	..	..	..
Total in Private Slaughter- houses.....		13257	46994	5118	1392	34009	..	..	..	..
Total in the City.....		47323	228048	5118	13448	42609	8485	49443	40	1603

UNWHOLESOME MEAT, FISH, &c., SEIZED AND DESTROYED.

DATE.—1881.		Beef.	Veal.	Mutton.	Lamb.	Pork.	Poultry	Rabbits	Fish.	Shell-fish.	Oysters.
		Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Head	Head	Lbs.	Bags.	Thous.
SLAUGHTER HOUSES.	Abattoir.....	77077	10897	54219	..	4716	..	..	..	..	..
	Bevington Hill	22702	7706	2269	..	..	..	..	..	..	..
	Bolton Street.....	526	..	..	..	..	..	..	..	..	..
	Benledi Street	360	58	..	..	..	..	..	..	..	..
	Back Castle Street ..	490	..	..	..	..	..	..	..	..	..
	Byrom Street.....	..	..	..	..	23	..	..	..	..	..
	Cross Street .....	..	..	..	..	2439	..	..	..	..	..
	Embledon Street .....	..	..	90	..	..	..	..	..	..	..
	Foley Street	966	54	..	..	..	..	..	..	..	..
	Finch Place .....	..	141	138	..	..	..	..	..	..	..
	Gelling Street	3200	1086	..	..	..	..	..	..	..	..
	Hodson Street	440	..	48	..	..	..	..	..	..	..
	Leeds Street .....	..	..	1010	..	..	..	..	..	..	..
	Norman Street .....	..	..	..	..	777	..	..	..	..	..
	Parliament Street....	1388	191	48	..	..	..	..	..	..	..
	Soho Street .....	..	..	..	..	290	..	..	..	..	..
	Scotland Road	530	735	..	..	..	..	..	..	..	..
	Upper Milk Street ..	2145	242	1991	..	1074	..	..	..	..	..
MARKETS.	{ St. James'	253	..	..	..	2	..	..	..	..	..
	{ St. John's	246	..	164	..	150	127	270	103037	123	24500
	{ St. Martin's	132	..	..	..	90	..	..	..	..	..
OTHER PARTS.	{ Athol Street	25	..	..	..	..	..	..	..	..	..
	{ Byrom Street.....	..	..	..	..	..	..	..	95	..	..
	{ Beaufort Street.....	..	..	..	..	..	..	..	36	..	..
	{ Back Rose Street .....	..	..	..	..	..	..	141	..	..	..
	{ Battery Street .....	..	..	90	..	..	..	..	..	..	..
	{ Canada Dock.....	3700	..	70	..	..	..	..	..	..	..
	{ Copperas Hill .....	..	..	..	..	12	1	..	..	..	..
	{ Christian Street .....	..	..	25	..	..	..	..	..	..	..
	{ Derby Road .....	..	..	..	..	..	..	..	8	..	..
	{ Dale Street.....	1800	..	..	..	..	..	..	..	..	..
	{ Eastbourne Street....	..	..	..	..	..	..	..	6	..	..
	{ Granby Street	18	..	..	..	..	..	..	..	..	..
	{ Great Howard Street..	..	..	10	..	..	..	..	..	..	..
	{ Great Homer Street..	158	..	..	..	7	..	..	..	..	..
	{ Great Charlotte Street	..	..	..	..	..	..	69	14728	..	..
	{ Gill Street .....	..	..	..	..	50	..	..	..	..	..
	{ Hill Street.....	17	..	..	..	..	..	..	..	..	..
	{ Heyworth Street .....	..	..	..	..	..	2	..	..	..	..
	{ Hood Street	124	..	..	..	..	..	7	..	..	..
	{ Huskisson Dock	3880	..	596	..	..	..	..	..	..	..
Carried forward....		120177	21110	60768	..	9630	130	487	117910	123	24500

UNWHOLESOME MEAT, FISH, &c., SEIZED AND DESTROYED.

Continued.

DATE.—1881.		Beef.	Veal.	Mutton	Lamb.	Pork.	Poultry	Rabbits	Fish.	Shell-fish.	Oysters.
		Lbs.	Lbs.	Lbs.	Lbs.	Lbs.	Head	Head	Lbs.	Bags.	Thous.
Brought forward ..		120177	21110	60768	..	9630	130	487	117910	123	24500
OTHER PARTS.	Lodge Lane	10	..	..	..	..	..	..	..	..	..
	Leison Street.....	..	..	..	..	179	..	..	..	..	..
	Mersey Street	234	..	..	..	..	..	..	..	..	..
	Mathew Street .....	..	..	..	..	300	..	..	..	..	..
	Mansfield Street ....	..	..	..	..	..	..	..	85	..	..
	Mill Street.....	13	..	6	..	..	..	..	20	..	..
	Pitt Street.....	..	..	..	..	7	..	..	375	..	..
	Richmond Row .....	..	..	..	..	..	..	..	10	..	..
	Rose Street .....	..	..	..	..	..	..	..	3759	48	..
	Roe Street .....	..	..	..	..	..	..	..	125	..	..
	Sawney Pope Street..	..	..	..	..	..	..	..	12	..	..
	Springfield Street....	..	..	..	..	6	..	..	..	..	..
	Scotland Road .....	..	..	176	..	148	..	..	10	..	..
	St. James Street	180	..	74	..	..	..	..	..	..	..
	Tithebarn Street ....	..	..	..	..	3	..	..	..	..	..
	Tunnel Road .....	..	..	..	..	..	..	..	40	..	..
	Vauxhall Road .....	..	..	..	..	..	..	..	50	..	..
	Warwick Street ....	..	..	..	..	12	..	..	..	..	..
	Westminster Road ..	..	..	..	..	..	..	..	6	..	..
	Wavertree Road	578	..	..	..	..	..	..	..	..	..
Total		121192	21110	61024	..	10285	130	487	122402	171	24500

	Tons.	cwts.	qrs.	lbs.
Meat—Equal to.....	95	7	0	27
Fish ,,	54	12	3	14

Number of Visits to Slaughterhouses made by Meat Inspectors	15,463
„ Informations for Exposing for Sale Diseased Meat and Fish ..	92
„ Fined	74
„ Sent to Gaol	3
Amount of Fines	£186 3 11

NUISANCES.

Nuisances inspected, complained of by Inhabitants	3,169
„ Reported by District Officers	79,882
„ Notices issued	46,499
„ Referred to the Medical Officer	11,172
„ „ City Engineer	3,681
„ „ Building Surveyor	1,939
„ „ Water Engineer	10,537
„ „ Superintendent of Scavengers	5,438
Number of Nuisance Informations	3,572
„ Fined	635
„ Magistrates' Orders to abate.. .. .	1,209
„ Withdrawn and Acquitted, the work being done	1,728
Amount of Fines	£189 3 0

HOUSE TO HOUSE VISITATION.

Number of Streets Examined	5,969
„ Street Houses Examined	77,869
„ „ found Clean	73,990
„ „ „ Dirty	3,879
„ Apartments in Street Houses Examined	255,567
„ Courts Examined	5,567
„ Court Houses Examined	26,212
„ „ found Clean	22,936
„ „ „ Dirty	3,276
„ Apartments in Court Houses Examined	77,030
„ Re-inspections of Dirty Houses	16,751
Total Number of Houses Examined	120,832

CELLAR EXAMINATIONS.

Number of Streets in which Cellars were Inspected	..	..	..	..	2,624
„ Cellars Inspected	..	..	..	..	31,718
„ „ found Empty	..	..	..	..	17,197
„ „ Illegally Occupied	..	..	..	..	771
„ „ Legally	..	..	..	..	13,750
„ Courts in which Cellars were Inspected	..	..	..	..	2,080
„ Cellars Inspected	..	..	..	..	10,769
„ „ found Empty	..	..	..	..	8,229
„ „ „ Illegally Occupied	..	..	..	..	189
„ „ „ Legally	..	..	..	..	2,351
„ Cellar Notices Issued	..	..	..	..	805
„ „ Informations	..	..	..	..	242
„ Fined	..	..	..	..	223
„ Withdrawn	..	..	..	..	19
Amount of Fines	..	..	..	..	£24 9 0

INFECTED AND DIRTY HOUSES.

1,298	Infected Street Houses Inspected, containing	..	..	..	..	1,878 cases.
373	„ Court	„	„	„	..	537 „
70	„ Cellars	„	„	„	..	104 „
Number of Notices to Owners to Cleanse Infected Houses						1,795
„	„	Occupiers to Whitewash Dirty Houses			..	7,945
„	„	Owners to Whitewash Exterior of Courts			..	3,112
„	Renewed Notices to Whitewash	..	..	..	..	5,000
„	Informations against Infected and Dirty Houses				..	793
„	Fined	..	..	..	..	154
„	Acquitted and Withdrawn	..	„	..	..	639
Amount of Fines						£59 12 0

SHIPPON AND PIGGERY INSPECTION.

Number of Inspections of Shippons and Piggeries	1,476
„ Informations	31
„ Fined	23
Amount of Fines	£5 7 6

COURT AND PRIVY EXAMINATIONS.

Number of Visits to Courts and Alleys	125,393
„ Closets found Dirty, but Cleansed during Officer's Inspection ..	100,533
„ Informations	19
„ Fined	17
Amount of Fines	£2 15 0

PROCEEDINGS FOR EXCESSIVE SMOKE.

Number of Informations against Manufactories	256
„ „ Steamers	57
„ Fined	303
„ Acquitted or Withdrawn	10
Amount of Fines.. .. .	£293 13 6

PROCEEDINGS UNDER THE ADULTERATION ACT.

No. of Samples.	Description of Samples.	Results of Analysis.
197	Milk	39 were adulterated and informations laid.
25	Butter	19 „ „ „
22	Spirits	1 was „ „
7	Green Peas	5 were „ „
4	Ale	Not adulterated.
2	Coffee	„ „
2	Drugs	„ „
2	Lard	„ „
1	Cocoa	„ „
1	Mustard	„ „
1	German Sausage..	Coloured by red earth, such as Armenian Bole.
264		

The number of prosecutions was 64, the result being that 11 cases were dismissed with a caution or withdrawn, and in 53 cases penalties were inflicted varying from 5s. to £5 and costs, amounting in all to £88 10s. 3d.

WATER CLOSET CONVERSIONS.

Number of Notices	962
„ Certified	2,465
„ Constructed	2,222
„ of Closets standing over from 31st December, 1880	438
„ Demolished	19
„ under Notices not expired, and Empty Houses	491
„ granted extension of time by Health Committee and Magistrates ..	171
„ of Informations	86
„ Fined	9
Amount of Fines	£10 5 6

SMOTHERED CATTLE.

Beasts.	Sheep.	Pigs.	Number found good.	Number found bad.	Weight of Bad in pounds.
58	128	80	161	105	25,740

REMOVALS TO MORTUARIES AND HOSPITALS.

Bodies Removed to Mortuaries.				Persons Removed to Hospitals.				
Smithdown Road.	St. Martin's.	Anfield.	Mill Road.	Brownlow Hill.	Mill Road.	Toxteth Park.	Children's Infirmary.	Netherfield Rd.
1	49	..	1	342	68	2	2	150

KNACKERS' YARDS RETURNS.

Horses Destroyed.	Asses Destroyed.	Other Animals Destroyed.
2935	35	33

SCAVENGING OPERATIONS.

The difficulty and expense in disposing of town refuse are yearly increasing, as the local tips or places of deposit are being gradually filled up or rendered unsuitable by the erection of dwelling houses in their proximity. Until very recently it has been possible to get rid of a large quantity of the less objectionable ashpit refuse, and Macadam in disused quarries, clay-pits, &c., but this has now to be sent into the country, where the places of deposit, within a moderate distance of the city, are also being gradually closed.

The town is divided for scavenging purposes into North and South districts. The total amount of unsaleable refuse collected during the year was 226,597 tons, which was disposed of as follows :—86,276 tons were deposited at the Northern tips, and 68,171 tons sent by canal into the country, 11,444 tons were deposited at the Southern tips, 56,429 tons sent out to sea by the steam hopper barge, and 4,277 tons sent away into Cheshire and up the Lancashire canal during periods when the barge was laid up for repairs, or could not work through stress of weather. After two years experience the steam hopper barge “Alpha” is found to be the cheapest and most efficacious method for the disposal of all unsaleable refuse. The “Alpha” made 156 trips during the year, giving an exact average of three per week ; and the average of her cargoes, calculated by displacement, was 360 tons. The cost per ton for sending the refuse thirty miles out to sea was an average of 1s. 3½d., which contrasts very favourably with the cost by canal, which averages 2s. 2d. per ton. The cost may be further slightly reduced by the provision of proper landing appliances.

Having regard to the daily increasing quantity to be sent up the canal, and the extra cost incurred by canal as against sea carriage, the Scavenging Committee have under consideration the advisability of procuring a second steam hopper barge to work the Northern division.

The scavenging operations have been well and efficiently conducted during the year ; and a detailed statement of this great work is given in the following tables, which have been kindly supplied by the Veterinary Superintendent, Mr. Richard S. Reynolds, M.R.C.V.S., who has charge of the scavenging department :—

Year 1881.

TABLE No. 1.

NIGHT SERVICE FOR EMPTYING MIDDENS, COURT ASHPITS, AND SOME OFFICE ASHPITS.

Notices Received.	Middens, &c., Emptied.	Loads of Nightsoil and Ashes.						Nightly average Working Staff.				Analysis of Work.		Average contents of each Midden. Cart Loads.	
		Number Removed.			Where Deposited.			Midden Men.	Wharf Men.	Carts.	Horses.	Loads per Man per Night.	Loads per Cart per Night.		
		Manure.	Ashes.	Total.	Phillips Street.	Sandhills.	South Wharves.								Waver- tree and Inland
9,690	24,726	26,909	15,808	42,717	28,039	9,826	3,219	1,633	7·8	31·26	32	3·28	4·39	1·72	

TABLE No. 2.

SERVICE FOR THE COLLECTION AND REMOVAL OF DRY ASHPIT ASHES.

Notices Received.	Ashpits Emptied.	Loads of Dry Ashes.				Average Daily Working Staff.				Analysis of Work.		Average contents of each Ashpit.
		Number Removed.	Where Deposited.			Ashpit Men.	Carts and Wagons.	Horses.	Loads per Man per Day.	Loads per Cart per Day.	Cart Loads.	
			Phillips Street.	Sandhills.	South Wharves.							Rubbish Tips, &c.
20,419	78,521	66,440	14,045	2,118	19,011	65·26	43·37	45·44	3·2	4·8	·85	

TABLE No. 3.
SERVICE FOR THE COLLECTION AND REMOVAL OF BELL
CART ASHES.

Loads Removed	Where Deposited.				Carts Employed.
	Phillips St.	Sandhills.	River Craft.	Rubbish Tips	
16,508	8,763	1,345	5,244	1,156	13·48

TABLE No. 4.
SERVICE FOR FLUSHING AND CLEANSING TROUGH WATER
CLOSETS.

Number of Urinals.	Number of Trough Water Closets.	Average Working Staff.	
		Trough W. C. Men.	Urinal Men.
211—472 Stalls.	3,645	50·6	11·49

TABLE No. 5.
SERVICE FOR CLEANSING, COLLECTION, AND REMOVAL OF REFUSE FROM STREETS, COURTS, PASSAGES, &c.

Loads of Street Sweepings Removed.					Average Daily Staff.				Average Number of Loads Removed Daily per Cart.	
Total Number Removed.	Where Deposited.				Scavengers.	Sweeping Machines.	Carts.	Horses.		
	Phillips Street.	Sandhills.	Wavertree.	South Wharves.						Refuse on Tips and New Macadam.
91,442	45,085	7,801	3,227	18,912	16,417	335·34	14	66·40	82·79	4·33

TABLE No. 6.

CLEANSING AND REMOVAL OF REFUSE FROM STREETS, COURTS, AND PASSAGES ON SUNDAYS.

Loads of Street Sweepings.											
Removed.				Where Deposited.						Average Daily Staff.	
Manure.	Ashes.	Refuse.	Total.	Phillips Street.		Sandhills.		River Craft Dock.			
				Manure.	Refuse.	Manure.	Refuse.	Manure.	Refuse.		
1,985	19	2,231	4,235	1,439	970	411	579	136	700	Men.	Horses.
										129·3	29·

TABLE No. 7.

SERVICE FOR STREET WATERING.

Number of Days on which Carts were out.	Total Number of Loads Distributed.	Average Daily Staff employed during the Season.			Average Number of Loads Distributed Daily per Cart.
		Watermen.	Carts and Horses.		
131	176,128	25·15	35·		38·32

TABLE No. 8.
DESPATCHES OF MANURE AND REFUSE.

	Saleable Manure.				Unsaleable Refuse.					Grand Total.	Average Daily Staff.	
	Night Soil.	Sweepings.	Mixture.	Total.	Contractors.	Farmers.	Depôts.	Sea.	Total.		Inspectors and Foremen.	Labourers.
Phillips Street....	18,432	18,048	2,400	38,880	54,672	6,768	14,661	..	76,101	114,981	} 1	19.4
Sandhills	672	..	192	864	13,296	144	48	..	13,488	14,352		
Do. by Rail..	6,398	6,197	9	12,604	..	18	..	..	18	12,622		
Wavertree	1,352	2,944	144	4,440	..	185	..	..	185	4,625		
River Craft Dock..	170	6,089	843	7,102	..	4,277	..	..	4,277	11,379		
Do. by Hopper..	..	..	..	..	..	..	..	56,429	56,429	56,429	..	20.6
	27,024	33,278	3,588	63,890	67,968	11,392	14,709	56,429	150,498	214,388	2	47.2

TABLE No. 10.
AVERAGE DAILY STAFF OF MEN EMPLOYED.

[illegible]

TABLE No. 11.

Daily Consumption of Provender and Weekly Cost per Horse per Week.
Food and Litter.

Days Keep.	Total Consumption of Food.		Daily Average Consump- tion per Horse.	Weekly Cost of each Horse's Keep.	
93,616 Horses of Health Committee. 1,196 Livery, &c. <u>94,812</u>	Corn	10,722½ centals.	Lbs. 11·30		
	Beans and Peas ..	4,422½ ,,	4·66		
	Oats	260 ,,	·27		
	Bran	2,247 ,,	2·37	Gross weekly cost	15s. 0¼d.
	Meal	597½ ,,	·63	Credit value of	
	Roots	158¼ cwt.	·18	Manure	1s. 8d.
	Grass.....	657¼ ,,	·77		<u>13s. 4¼d.</u>
	Hay	9,775¼ ,,	11·77		
	Straw	7,000 ,,	8·05		
	Sawdust	3,092 sacks.	·032		

DURING THE 52 WEEKS OF THE YEAR 1881, IN THE URBAN SANITARY DISTRICT OF
ALSO THE POPULATION OF SUCH LOCALITIES

(I.) NAMES OF LOCALITIES adopted for the purpose of these Statistics ; public institutions being shown as separate localities. WARDS. 1.	POPULATION AT ALL AGES.	Registered Births. 3.	MORTALITY FROM ALL CAUSES, AT SUBJOINED AGES.						
	Census 1881. 2.		At all Ages. 4.	Under 1 Year. 5.	1 and under 5. 6.	5 and under 15. 7.	15 and under 25. 8.	25 and under 60. 9.	60 and upwards 10.
Scotland	70606	2680	1966	552	541	114	59	503	199
Vauxhall	15382	530	461	130	108	25	13	132	55
St. Paul's and Exchange	19937	617	616	138	137	20	29	205	88
St. Anne's and Lime Street	36688	1100	893	247	215	55	31	240	100
Castle Street and St. Peter's	6644	143	142	31	24	5	2	45	18
Pitt Street and Great George	18910	611	415	105	75	18	21	115	48
Rodney Street and Abercromby	41997	1260	685	132	103	35	23	214	110
Everton	109812	4270	2323	649	527	157	94	567	380
Kirkdale	58145	2489	1163	338	254	94	57	272	110
West Derby	67727	2718	1429	432	320	70	46	344	220
The Toxteths	106660	4344	2242	660	526	109	85	547	380
(II.) Public Institutions. { Parish Workhouse & Hospitals..	..	..	1977	169	183	97	165	932	480
{ Out Township Workhouse and Hospitals .....	..	..	421	4	13	30	51	270	110
Totals	552508	20762	14733	3587	3026	829	676	4386	2200

Deaths occurring outside the division or district among persons belonging thereto	8	..	1	1	1	3	
Deaths occurring within the division or district among persons not belonging thereto	25	..	5	2	4	13	

(B) TABLE OF NEW CASES OF SICKNESS,

*Coming to the knowledge of the Medical Officer of Health during the year 1881,
in the Urban Sanitary District of Liverpool, classified according to*

LOCALITIES and DISEASES.

NAMES OF LOCALITIES. WARDS.	NEW CASES OF SICKNESS IN PERSONS BELONGING TO THE DISTRICT.				
	Small Pox.	Measles	Scarlatina.	Diphtheria.	Continued Fevers.
Scotland.....	13	332	222	10	278
Vauxhall	11	60	25	..	150
St. Paul's and Exchange.....	2	140	47	..	139
St. Anne's and Lime Street	12	147	74	2	104
Castle Street and St. Peter's .....	..	13	7	..	8
Pitt Street and Great George.....	1	71	21	3	16
Rodney Street and Abercromby	4	78	93	5	27
Everton	144	348	397	20	194
Kirkdale.....	33	159	138	10	59
West Derby	12	276	142	9	94
The Toxteths.....	10	549	120	11	89
Patients admitted to Hospital whose residences were either outside the City or unknown	20	53	12	..	49
TOTALS.....	262	2226	1298	70	1207

DURING THE YEAR ENDING SATURDAY, 31ST DECEMBER, 1881.

Signed by _____

